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AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

MARCH 1, 1956



Cercidiphyllum Japonicum Sinense

SEEDS TREE—SHRUB—PERENNIAL
FLOWER—GRASS—VEGETABLE

HERBST BROTHERS

SEEDSMEN, INC.

678 Broadway, New York 12, N. Y.

Correspondence with seed collectors and growers invited. Free catalog "Seeds for Nurserymen."

ROSES

CALIFORNIA GROWN — UNDER IRRIGATION

Good northern California grown roses are in short supply. Check the following list and reserve for immediate shipment or later as directed.

All our roses are in modern refrigerated storage, in excellent condition.

For descriptions see our Spring Wholesale Trade List. If you do not have a copy write us.

Prices are per 100; except patented varieties. TERMS: REGULAR.

CLIMBING VARIETIES

	Per 100
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Blaze, No. 1	55.00
Climbing American Beauty, No. 1	50.00
Climbing American Beauty, No. 1 1/2	40.00
Crimson Rambler, No. 1	40.00
Dorothy Perkins, No. 1	35.00
Excelsa, No. 1	35.00
Gardenia, No. 1	50.00
Paul's Scarlet, No. 1	50.00
Silver Moon, No. 1	40.00
Wichuraiana, No. 1	35.00
Wichuraiana, No. 1 1/2	27.00

SHRUB VARIETIES

	Per 100
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Amelia Gravereaux, 2 to 3 ft.	60.00
Austrian Copper, 2 to 3 ft.	60.00
Belle Poitevine, 2 to 3 ft.	50.00
Belle Poitevine, 18 to 24 ins.	40.00
Blanda, 2 to 3 ft.	50.00
Blanda, 18 to 24 ins.	40.00
Carolina, 2 to 3 ft.	45.00
Carolina, 18 to 24 ins.	35.00
F. J. Grootendorst, 2 to 3 ft.	60.00
F. J. Grootendorst, 18 to 24 ins.	50.00
Grootendorst, Pink, 2 to 3 ft.	60.00
Grootendorst, Pink, 18 to 24 ins.	50.00
Grootendorst Supreme, 2 to 3 ft.	65.00
Grootendorst Supreme, 18 to 24 ins.	55.00
Hugonis, 3 to 4 ft.	65.00
Hugonis, 2 to 3 ft.	50.00
Lucida, 2 to 3 ft.	45.00
Mrs. Anthony Waterer, 2 to 3 ft.	55.00
Mrs. Anthony Waterer, 18 to 24 ins.	45.00
Rubrifolia, 2 to 3 ft.	55.00
Rubrifolia, 18 to 24 ins.	45.00
Rugosa Rubra, 2 to 3 ft.	60.00
Rugosa Rubra, 18 to 24 ins.	50.00
Setigera, 2 to 3 ft.	50.00
Setigera, 18 to 24 ins.	40.00
Skyrocket, 2 to 3 ft.	60.00
Skyrocket, 18 to 24 ins.	45.00

PATENTED VARIETIES

RETAIL PRICES EACH	WHOLESALE PRICES			
	Each 10 to 20	Each 20 to 100	Each 100 to 250	Each 250 up
*****\$2.75	\$1.50	\$1.37 1/2	\$1.30	\$1.20
****2.50	1.40	1.25	1.20	1.10
***2.25	1.25	1.12 1/2	1.05	.95
**2.00	1.10	1.00	.95	.85
*1.75	1.00	.87 1/2	.80	.75
1.50	.90	.75	.70	.65

No. 1 1/2 grade 20% less than above prices.

HYBRID TEA

	No. 1	No. 1 1/2
*** Capistrano	X	X
***** Charles Mallerin		X
*** Charlotte Armstrong		X
***** Chrysler Imperial	X	X
*** Diamond Jubilee	X	X

HYBRID TEA—Continued

	No. 1	No. 1 1/2
**** First Love	X	X
**** Forty-Niner		X
*** Fred Howard	X	X
*** Golden Scepter	X	X
**** Helen Traubel		X
*** Horace McFarland		X
*** Katherine T. Marshall		X
*** Lowell Thomas	X	X
*** Mary Margaret McBride	X	X
*** McGredy's Sunset		X
*** Mirandy	X	X
**** Mission Bells		X
***** Mojave		X
*** New Yorker		X
**** Nocturne	X	X
**** Peace		X
*** Rose of Freedom		X
*** Rubaiyat		X
*** Sen Fernando	X	X
*** Show Girl		X
*** Sleigh Bells		X
**** Sun Valley Rose	X	X
**** Sutter's Gold		X
*** Suzon Lotthe	X	X
*** Taffeta	X	X
*** Tallyho	X	X
***** Tiffany	X	X

GRANDIFLORA

***** Buccaneer		X
*** Carrousel	X	X
***** Queen Elizabeth	X	X

FLORIBUNDA

*** Baby Blaze		X
*** Betty Prior		X
*** Chatter		X
*** Donald Prior	X	X
*** Geranium Red	X	X
*** Goldilocks	X	
*** Holiday	X	X
*** Independence	X	X
*** Lilibet	X	X
*** Ma Perkins	X	X
*** Masquerade	X	X
*** Red Pinocchio		X
*** Vogue	X	X
*** White Pinocchio	X	X
*** World's Fair		X
*** Yellow Pinocchio	X	X

BROWNELL HYBRID TEA

	Each 10 to 20	Each 20 to 100	Each 100 to 250
No. 1	\$1.00	\$0.90	\$0.85
No. 1 1/2	.80	.72	.68

	No. 1	No. 1 1/2
Curly Pink	X	
Orange Ruffles	X	
Pink Princess	X	X
Queen o' the Lakes		X
Red Duchess		X
Shades of Autumn	X	X
V for Victory	X	



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One of America's Foremost Nurseries

Mount Arbor Nurseries

• SHENANDOAH IOWA •

[Registered U. S. Patent Office]

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MARCH 1, 1956

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2

INDEX TO ADVERTISERS

Adair Co., Charles	131	Gorton's Nursery	52-58	Paul's Nursery	70
Agri-Plast	128	Grootendorst & Sons, F. J.	98	Pearce Seed Co.	46
Alanwood Nursery	58	Gro-Quick Sales	124	Peekskill Nursery	32
Allen Co.	142	Growers Exchange, Inc.	114	Perkins Bros.	72
Allen's Nurseries & Seed House	83	Growers Sign Service	115	Permark Co., Inc.	114
Allis-Chalmers Mfg. Co.	34	Gulf Stream Nursery, Inc.	127	Perry Nursery Co., O. H.	91
American Agricultural Chemical Co.	33	Gutbrod Co., A. H.	124	Peterson & Dering	98
American Cyanamid Co.	118	Half Moon Mfg. & Trading Co.	128	Phytotek	65
American-Dutch Trading Co.	144	Halpern Bros.	145	Pikes Peak Nurseries	40
American Florist Supply Co.	131	Heart of Missouri Poultry Farm	138	Pleasant View Nurseries	76
American Landscape School	136	Heasley's Nurseries	26	Plumfield Nurseries, Inc.	39
Angelica Nurseries	46-54	Heemskerk & Co.	101	Portland Wholesale Nursery Co.	101
Anti-Frost	126	Herbst Bros. Seedsman, Inc.	1	Possum Hollow Nurseries	46
Ariens Co.	71	Hess' Nurseries	42	Premier Peat Moss Corp.	118
Armintrout's Evergreen Nursery	79	Hidden Valley Nursery	54	Premier Southern Ticket Co.	136
Arp Nursery Co.	138	Hill Nursery Co., D.	148	Princeton Nurseries	48
Artkin's Sons, L.	129	Hillmeyer Nurseries	86	Quackenbush Industries, Inc.	146
B & B Metal Crafters	129	Hobbs & Sons, Inc., C. M.	80	Rambo's Wholesale Nurseries, L. J.	76
Bagatelle Nursery	62	Hollandia Gardens	78	Ramsey Co., L. W.	146
Bailey Nurseries, J. V.	82	Homestead Nurseries	98	Ra-Pid-Gro Corp.	51
Bartlett Mfg. Co.	122	Horsford, William Crosby	89	Ravensberg, Maurice C.	98
Bealle, J. B.	94	Houtzdale Tree Nursery	42	Ray Co., Carl	85
Beardslee Nursery	42-54-58-72-80-82-83-92	Howard & Smith, Inc.	98	Reliance Fertilizer Co.	127
Benedict Nursery Co.	97	Howards of Hemet	44	Reynolds, Harry H.	130
Benson-Maclean	138	Hubbs Nurseries	64	Reynolds Metals Co.	25
Berryhill Nursery Co.	70-122	Hummel's Exotic Gardens	94	Rhode Island Nurseries	60
Bilhorn & Co., George	132	Humphreys Landscape Service	75	Rich & Sons Nurseries	89
Bird & Son, Inc.	65	Hy-Gro Corp.	75	Riverside Nursery	87
Blackwell Nurseries	90	Igenfritz Nurseries Co.	70	Robinson Sales Agency, E. D.	62
Bobbink Nurseries, Inc.	48	Imperial Tag & Printing Co.	120	Rogers Nursery, R. H.	56
Boltman Asparagus Co.	80	International Harvester Co.	59	Rolcor Industries	125-132
Borden Co.	73	Iron Mountain Evergreen Co.	78	Rootspred	131
Bosley Nursery	80	J-M Trading Corp.	144	Rough Bros.	130
Boulevard Nurseries	54	Jackson & Perkins	32	Rover Foundry & Machine Co.	141
Boyd Nursery Co., Inc.	93	Jewel Nurseries	78	Ryan Landscaping Equipment Co.	140
Braden, K. J.	94	Jiffy Baling Co.	137	Salem Tool Co.	125
Brillion Iron Works, Inc.	38	Johnson Weeder	138	Scaff's Nursery	133
Bristol Nurseries, Inc.	38	Johnson, William A.	82-94	Schneider Metal Mfg. Co.	133
Brookfield Gardens	62	Judson Wholesale Nurseries	74	Schroth's Nursery	61
Brookville Nurseries	44	Kallay Bros. Co.	74	Schumacher, F. W.	92
Brouwer's Nurseries	54	Keeler's Gardens	76	Semmes Nursery	94
Brown Bros. Co.	60-118	Keeler Steel, Inc.	147	Sepers Nursery	66
Brown Deer Nurseries	74	Keeling Nursery, Forrest	70	Sequoia Nursery	99
Bruce Nurseries	92	Kelly Bros. Nurseries, Inc.	83	Shade's Nursery	50
Bryant's Nurseries	78	Kinawood Nurseries	56-58-66-68-72-80-82-92	Shaw-Baltic Nursery	87
Bulk's Nurseries	54	Koster Nursery	52	Shell Chemical Corp.	127
Buntings Nurseries	46	Krieger's Wholesale Nursery	54	Shenandoah Nurseries	27
Burr & Co., Inc., C. B.	37	LaBart's Rhododendron Nursery	68	Shepard Nurseries	48
Burton's Hill Top Nurseries	70	Laird's Nurseries	76-93	Sherman Nursery Co.	74
Canale's Forest Nursery	52	Lake County Nurserymen's Ass'n.	76	Sherwood Nursery Co.	22-23
Carbide & Carbon Chemicals Co.	47	Lake Sammamish Evergreen Nursery	101	Shore & Co., J.	136
Carpenter & Co., George B.	135	Lansing Specialties Mfg. Co.	136	Skinner Irrigation Co.	126
Cartwright Nurseries	28	Larvacide Products, Inc.	131	Slocum Water Gardens	123
Cassinelli's Glendale Nurseries, Inc.	28	Lebanon Chemical Corp.	69	Smith Corp., W-T.	94
Charles Finishing Products Co.	134	Leeland Farms	91	Smith's Forest Tree Nursery	70
Chase Co., Benjamin	87	Leonard & Son, A. M.	124	Sneed Nursery Co.	93
Chase Nursery Co.	87	Leuthardt, Henry	122	Soil & Plant Research Laboratories of	134
Chicago Stockyards Compost Co.	122	Lindig Mfg. Co.	115	Soil Builders International Corp.	97
Clarke & Co., W. M.	102-114	Lindley Nurseries	94	Southern Nursery & Landscape Co., Inc.	130
Classified Ads	43	Lovett's Nursery, Inc.	54	Sprayers & Nozzles, Inc.	130
Cloverset Farm	119	Luke Nursery	87	Springsbrook Gardens	82
Clyde Cutlery Co.	49	Magee, Thomas J.	125	Standard Oil Co. (Indiana)	129
Cole Nursery Co.	93	Mathews Nursery	77	Stanwade Metal Products	121
Commercial Nursery Co.	93	May Nursery Co.	98	Stassen Floral Gardens	94
Conigisky Co., B. F.	118	McDowell Mfg. Co.	124	Stedman Nurseries	94
Corliss Bros., Inc.	52	McGill & Son, A.	98	Steele, Edward J.	118
Cottage Gardens	88	McIntyre Greenhouse	72	Steele's Pansy Gardens	136
Crawford Nursery, Inc.	80	McIntyre Nursery, Robert	131	Sterling Bag & Burlap Co.	136
Crume Nursery & Landscaping Co., T. C.	89	Meehan & Sons, Thomas	139	Stribling's Nurseries	99
Cumberland Plateau Nursery	60	Mennes Nurseries Menno S.	139	Sudbury Laboratory	124
Curtis Nurseries	66	Meyer Nursery, M.	82	Summit Nurseries	82
Danegger's Hi-Way Nursery, Inc.	62	Milton Nursery Co.	101	Suncrest Evergreen Nursery	84
Darling Co., J. L.	122	Minnetonka Publishing Co.	134	Supreme Electric Products	128
Dayton Fruit Tree Label Co.	118	Mitska Nursery	79	Tankard Nurseries	93
Deerfield Nurseries	50	Mitsch Nursery	99	Tapscott's	55
Del-Mar-Va Nurseries	60	Molnar Nurseries	78	Taubman & Co., Samuel	126
Desconto Distributors, Inc.	92	Monrovia Nursery Co.	29-98	Thilmany Pulp & Paper Co.	81
Diamond State Nurseries	80	Montebello Rose Co.	98	Thordale Farm	126
Dible Nursery, Sam	66	Moorestown Gardens, Inc.	56	Tingle Printing Co.	126
Doerfler & Sons, F. A.	97	Moran, E. C.	90	Torney's	114
Doty & Doerner, Inc.	98	Morning Star Nursery	45	Townson Nurseries, Inc.	48
Dow Chemical Co.	31	Morse Co., A. B.	114	Ullman Co.	118
Du Pont de Nemours & Co., Inc., E. I.	35	Mount Arbor Nurseries	2	Union Products, Inc.	135-145
Eagle Creek Nursery Co.	74	Mount Vernon Nursery	99	United Air Lines	21
Eastern Chemical Co.	120	Musser Forests, Inc.	24	United States Rubber Co.	30
Eastern Shore Nurseries, Inc.	46	National Landscape Institute	142	Van Kleeck's	126
Eccles Nurseries	60	Norton Co., W. A.	74	Van Veen Nursery	60
Economy Label Sales Co.	143	Naughton Nurseries	84	Vanderbrook Nurseries	79
Edco Corp.	128	Nekosch Edwards Paper Co.	77	Verand Nursery	79
Edwards Laboratory	120	Nepco Lakes Nursery	77	Verhalen Nursery Co.	88
Elmer Roses	98	New Amsterdam Import Co.	141	Verkade's Nurseries	50
Ernst, Inc.	79	New England Tree Diaper & Root Pruner Co.	137	Vuvk Van Nes Nurseries	98
Evergreen Nursery Co.	70	New York Twine Corp.	143	W.W. Grinder Corp.	139
Fafard, Inc., Conrad	133	New York Bag & Burlap Co.	135	Wade & Gatten Nursery	68-81
Fairview Evergreen Nursery	90	Newport Nursery Co.	64	Want Ads	116-117
Fern Hawaii Co.	126	Nu Bark Distributors	132	Waynesboro Nurseries	41
Fike Nurseries	90	Nurnberger, C. E.	135	Wayside Gardens	76
Fillmore County Nursery	72	Nurserymen's Exchange	101	Weeks Wholesale Rose Grower	97
Flowerwood Nursery	87	Oliver Corp.	53	Weller Nurseries Co., Inc.	90
Forest Nursery Co., Inc.	86	Orange Nursery Co.	72	Whalley, J. B.	101
Forestry Associates	83	Oregon Bulb Farms	88	Whitehall Metal Studios, Inc.	142
Foster Nurseries, Inc.	83	Owen & Son, T. G.	90	White's Nursery, Carl	98
Fraser Nursery, Samuel	40	Ozark Nursery Co.	90	WhiteShowers, Inc.	114
Garden Shop, Inc.	128	Ozarks Plant Farms	136	Wight Nurseries	91
Gardner's Nurseries	42	Pacific Coast Nursery	98	Williams & Harvey Nurseries	140
Geiger Co., E. C.	130	Pacific Northwest Rose Nursery	97	Williams, Isaac Langley	80
George Nurseries, D. S.	54	Pallack Bros. Nurseries, Inc.	54-64	Willis Nursery Co.	36
Gilson & Son Nursery, Edward	74	Palmer & Sons, J. R.	68-76	Willowbend Nursery	81
Gledhill Road Machinery Co.	120	Parmentier's Roses	58	Wilmet Holly Co.	90
Glen St. Mary Nurseries Co.	92	Patio Wood Products	57	Wirtz, Hermann A.	143
				Wood Products Co.	123
				Woodruff & Sons, Inc.	121
				Woodsum Nursery	94
				Worley's Nurseries	92
				Yoho & Hooker Greenhouse Co.	138
				York Modern Corp.	145

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**You can see for yourself
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Seriously . . . when it comes to growing fine-quality rosebushes year in and year out, you can't beat the ideal climatic conditions of the fertile, high mountain valley of Hemet, California.

This year's even finer crop means that we now have a very fine assortment of patented and non-patented varieties to sell. Many popular varieties—usually sold out by this time in previous years—are now available in No. 1 grade.

REMEMBER . . . Howards of Hemet bare-root rosebushes are *shipped prepaid* to 11 different warehouses throughout the United States and *prepaid refrigerated storage* is included for a reasonable period of time.

Here is your opportunity to buy California's choice-quality rosebushes . . .

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TIFFANY (hybrid tea) AARS 1955 & LILIBET (floribunda) AARS 1954 are HOWARDS OF HEMET ORIGINATIONS

AMERICAN NURSERYMAN

F. R. KILNER
Editor and Publisher

FRED H. KILNER
Managing Editor

Editorial

FAIR PRACTICE RULES

The importance of fair trade practice rules to the industry, as well as to the public, was commendably recognized by engaging an attorney well versed in such matters in the nurserymen's behalf. Again the American Association of Nurserymen has shown enterprising leadership, and its officers have manifested wisdom and judgment in the handling of a difficult project.

The first drafts of the fair trade practice rules, as submitted at the industry conferences more than a year and one-half ago, have been shorn of much excess verbiage and irrelevant details. The interested nurserymen and the attorneys of the federal trade commission have both performed notable service in this regard.

Some important provisions remain to be adjusted for the effective phrasing of the rules. When these are finally reached, the result should be protection of the industry and of the public from those persons, few though they be, who seek to take unfair advantage of both.

FAVORITE TREES

A popular pastime at some recent meetings of nurserymen and arborists has been the selection of the 10 best trees or the 10 best shrubs, sometimes for designated purposes and sometimes not.

At one meeting it was said that nurserymen might be expected to select trees easy to grow, that landscape contractors might be expected to choose trees easy to transplant and landscape architects might probably name trees notable for outstanding characteristics, in texture, shape or the like. At another meeting a speaker waggishly suggested a list of 10 trees that were the best for the public and a list of 10 that were the best for arborists, because of the spraying and pruning required.

The pastime of compiling such lists is productive of interesting discussion and exchange of information, but it should be plain — or should be made so — that such lists are

personal preferences, limited by locality, experience and judgment. Such lists may be useful for persons of horticultural knowledge and discernment, but it is doubtful if they can be of real service to an uninitiated public.

Anyone who has attended a "bull session" of informed plantmen knows how hot can be the debate and how opposed the opinions expressed as to the value of various trees and shrubs. Any list of 10 best is a compromise selection and should be qualified or explained if presented to the public at all.

NATAL TREES

When the expanding city of Greenville, Miss., became alarmed at the decreasing number of trees in the urban area, the enterprising local garden club decided to meet the problem by presenting every newborn baby a tree, with a name plate attached. A local newspaper photographs the first baby to receive a tree each month. It is planned to photograph this baby and his tree on each birthday anniversary to show the growth of each.

While the trees presented to this year's babies are not likely to cast much shade for some years, the garden club's project, plus the newspapers' photographs, will keep the desirability of trees to the community before its citizens. The trees they plant, in consequence, upon their own property may be of much more importance in the near future than the natal trees.

PACKAGED STOCK

More kinds of plants are being prepared for sale in packages so that they are more easily, expeditiously and cleanly handled by sellers and buyers. Progress is being made in improvement and use of packaging materials, also. Tests are made by the processors to ascertain the success of their methods, containers and stock.

But perishable products such as plants, or even seeds and bulbs, are not foolproof in the best packages. Excessive heat or cold, exposure to wet or to drying conditions, rough handling or storage overlong are to be guarded against by the retailer as well as those who supply him.

Of course, it may be said that the same caution applies to balled stock, canned plants and even bare-root material. Usually it is evident when these require attention or are past

their prime. Such is not always the case with packaged stock. If the progress made in this field is to continue, the care due this type of merchandise must be recognized.

HOME IMPROVEMENT

While it is estimated that the high rate of home building of the past few years will keep nurserymen busy for several seasons ahead, they will be interested in a project which may afford them added business. This is "operation home improvement," a national campaign to restore and modernize old but sound homes.

Though difficult to estimate, the amount of money spent for home maintenance and improvement is said to be nearly as much as that currently invested in new housing, and a drive toward renewal of old properties is thought likely to develop much business.

Liberalization of title 1, FHA loans would help in this movement. President Eisenhower has asked Congress to increase the loan maximum for home improvements under title 1 to \$5,000 from the present \$3,000 and to extend the repayment period to five years from the present three.

The home improvement drive is being sponsored by construction interests and related organizations, including civic associations.

Should this project meet with the desired public reaction, the modernization of home plantings should be a logical part. There is certainly as much need for attention to the exterior premises of most residences as to the interior. The movement for home ground renovation in the '30's was successful enough to warrant interest in the present project by the nursery industry at large.

NEW WAGE LAW

Beginning March 1, firms in interstate commerce are reminded, employees must not be paid less than \$1 per hour, under the latest revision of the federal wage-hour law.

Firms entirely in intrastate business are not affected, but the interpretation of interstate business is so broad nowadays that careful checking is in order if you are able to employ any help for less than \$1 per hour.

Farm labor as such is not covered by the law, but employees engaged in marketing farm products are subject to its provisions, if operations are in interstate commerce.

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Officers and directors of the Tennessee Nurserymen's Association, left to right, Warren Walker, executive committee member; Charles Morse, Jr., executive committee member; Hubert Boyd, secretary-treasurer; L. C. Fletcher, vice-president; Thomas Faulkner, president; Archie Cultra, retiring president, and Clark Boyd, retiring secretary-treasurer.

Tennessee Holds 51st at Memphis

The Tennessee Nurserymen's Association held its 51st annual convention at the Hotel Claridge, Memphis, February 5 to 7. Because of the abundance of rain blanketing the state during the previous week, many nurserymen had difficulty traveling to the meeting, and others remained at home. Total registration for the 3-day event was approximately 80. Highlights of the convention were a report on the survey of nursery business in Tennessee, panel discussions, a talk on trends in landscaping and a report from the executive vice-president of the American Association of Nurserymen.

Elected president of the association for the coming year was Tom Faulkner, Faulkner's Mountain View Nursery, Maryville; Leonard C. Fletcher, Tennessee Nursery Co., Cleveland, was chosen vice-president, and the new secretary-treasurer is Hubert Boyd, Boyd Nursery Co., McMinnville. Replacing Leon Hawkersmith, Winchester, on the executive committee is Charles Morse, Jr., Morse Bros., Chattanooga, while newly elected to the committee is Warren Walker, Walker Nurseries, Memphis.

Opening Activities

Convention activities commenced Sunday evening with an elaborate party given by Cartwright Nurseries, Collierville. The meeting was officially called to order Monday morning, February 6, by President Archie Cultra, Morning Star Nursery, Rives. In a brief address, he thanked the members for their energetic cooperation during the past year and lauded the convention committees. President Cultra cautioned the nurserymen to advertise collected nursery stock as such and related that he was

aware of only one complaint in the past year.

Clark Boyd, Boyd Nursery Co., McMinnville, gave a roll call of members and presented his secretary-treasurer's report, which showed a balance of \$2,783.28 in the treasury. President Cultra announced that the Tennessee Nurserymen's Association currently has 95 active members, 22 associate and 12 affiliate members. After appointing several committees, President Cultra read a letter from Hubert Nicholson, Commercial Nursery Co., Decherd, immediate past president, expressing his regrets that he could not attend the convention due to the illness of his father.

Nurserymen's Opportunities

Richard P. White, executive vice-president of the American Association of Nurserymen, Washington, D. C., was the first speaker on the

program. Dr. White related that the state highway departments are looking toward the nursery industry to assist in planning roadside development. It is up to the national and state nurserymen's associations to step in, he stressed. The A. A. N. has already pointed out the advantages of roadside planting to road builders, he said, but it is the state highway departments who will write the ticket for roadside planting. The Tennessee Nurserymen's Association, said Dr. White, should sell the state highway department on the functional uses of plant materials.

The A. A. N., related Dr. White, is working on a booklet involving highway planting which will be distributed among road builders, nurserymen's associations, garden clubs, etc. He believes this will have a strong impact on the various groups.

Switching to the farm bill being



Plant identification panel, Tennessee Nurserymen's Association meeting, left to right, Richard H. Jones, panel leader, Jones Ornamental Nursery, Nashville; Hoskins A. Shadow, Tennessee Valley Nursery, Chattanooga, and Fritz Griendler, Sunbeam Nursery, Chattanooga.



Panel members who took part in a discussion of propagation, can production, fertilization and irrigation at the Tennessee Nurserymen's Association meeting, left to right, Oliver Anderson, Evergreen Nursery, Germantown; C. J. Hayden, Athens Nursery Co., Athens, Ga.; Joe Alexander, panel leader, Cartwright Nurseries, Collierville, and Steve Verhalen, Verhalen Nursery Co., Scottsville, Tex.

debated by Congress, Dr. White stated that many years ago there was a battle between the nursery industry and the government as to who should produce trees for shelterbelt and erosion planting. Commercial nurserymen, he affirmed, can produce trees as well as the government and less expensively. The industry can assure the government 288,000,000 tree and shrub seedlings, but with 6,250,000 acres to be planted, assuming 1,000 trees and shrubs to the acre, the quantity the industry can furnish is insignificant.

Home Improvement Plan

Vernon Marshall, president of the A. A. N., has been called upon to act as consultant on "Operation Home Improvement," said Dr. White. Being sponsored by the building trades, it will have a slogan, "1956 is the year to fix." The program is a United States Chamber of Commerce program, and to get it started in the state, the manager of the chamber of commerce should be persuaded to call a meeting of the building trades. Dr. White urged the Tennessee association to get behind the program as it is in the community interest.

Dr. White pointed out the opportunities for nurserymen in the industrial landscaping field and stated that he is highly optimistic about the future of the industry. He said President Cultra's remarks on collected nursery stock called his attention to the fair trade practice rules which are being completed. Four of the five differences have been straightened out to the satisfaction of the nursery industry, he reported, while the use of the term "nursery" is still under debate. The rule on this point,

related Dr. White, might be thrown out entirely. The federal trade commission is hoping the rules can be released by April 1.

Nurserymen's Tendencies

"Trends in the Landscape Nursery Business" was the title of the talk delivered by Lloyd G. Platt, Platt's Landscape Nursery, Davenport, Ia., executive secretary of the National Landscape Nurserymen's Association. After reporting the developments on FHA housing, Mr. Platt said his talk would cover tendencies rather than trends in the landscape nursery business. He began by relating the story of a landscape nurseryman who employed a landscape architect to develop new business. After finding that the man was not producing enough business to cover his salary, the nurseryman changed his policy and had his employee call back on customers for which the nursery had done plantings, to see if further work could be done and to advise on how to take care of existing plantings. In a short time, said Mr. Platt, the nurseryman's business increased notably. One of the greatest weaknesses of the landscape nurseryman is calling back on customers. A satisfied customer, emphasized Mr. Platt, will provide additional prospects.

A nurseryman, observed Mr. Platt, will take care of trees and shrubs over a period of years, bringing them along slowly. But, he added, the nurseryman will not take the same trouble with employees. When hiring an inexperienced college graduate, the nurseryman will have to go along half way.

A landscape nurseryman can well diversify his business, said Mr. Platt,

but it can be overdone. The nurseryman has the tendency to do things which appear to be easiest at the time. There is a trend towards salesyards, but to operate one properly there is a need for the right kind of sales personnel. Salesyards and garden centers will become more and more specialized and will take added time from the landscape business, he pointed out.

More landscape men are watching costs more closely, he observed. Personnel is becoming more costly, and the landscape nurseryman can well afford to look into laborsaving equipment, he added. To do a good job, the landscape nurseryman will have to specialize a little more, he reiterated. More landscape nurserymen are hiring accountants to go over their books each month, said Mr. Platt. There is also a trend for nurserymen to get together and exchange ideas. A final remark by Mr. Platt was that more information needs to be released on the mechanics of determining costs, so that wide variances in job estimates can be eliminated.

Panel Discussions

Concluding the morning sessions were two panel discussions, the first being on plant identification. At the invitation of the secretary of the Tennessee association, members were asked to bring plants for identification at this session. Richard Jones, Jones Ornamental Nursery, Nashville, led the discussion with panel members, Hoskins A. Shadow, Tennessee Valley Nursery, Winchester, and Fritz Griendler, Sunbeam Nursery, Chattanooga. After a lengthy discussion on the various types of euonymus and the identification of several varieties, the panel identified most of the plants submitted.

The second panel on propagation and can production had Joe Alexander, propagator for Cartwright Nurseries, as leader, with Steve Verhalen, Verhalen Nursery Co., Scottsville, Tex.; Oliver Anderson, Evergreen Nursery, Germantown, and C. J. Hayden, Athens Nursery Co., Athens, Ala., as panel members.

Soil Preparation

Talking on the propagation of *Osmanthus americanus*, Mr. Hayden stated that it is a difficult plant to root, but rooting can be accomplished if the proper amount of time is allowed. In response to a question about soil mixture for canning nursery stock, Mr. Verhalen explained that his firm plants cover

[Continued on page 90]

Record Attendance at Oregon Convention

By James Doty

The annual midwinter meeting of the Oregon Association of Nurserymen, held at the Multnomah hotel, Portland, Ore., February 7 and 8, completed the association's 25th year of activity. The largest turnout ever recorded at an O. A. N. convention attended the successful program with its outstanding speakers and social events.

Officers elected for the coming year were: Melvin Surface, Surface Nursery, Gresham, president; Paul Van Allen, Portland Wholesale Nursery Co., Portland, first vice-president, and Joseph Klupenger, Klupenger Nursery, Portland, second vice-president.

Elected to serve as directors at large of the association were Reed Vollstedt, Eugene, and Wayne Melott, Forest Grove. Completing the 8-man board will be the trustees, Lynn Brooks, Forest Grove, chairman; James Doty, Portland, and W. P. Nuffer, Troutdale.

Elected to the nursery advisory committee of the Oregon Bulb Florist and Nursery Council were Wayne Melott; Charles Drew, Beaverton, and Frank Schmidt, Jr., Troutdale. They will serve with holdover members Sam Rich and Henry Hausch.

Opening the meeting Wednesday morning, February 7, President W. P. (Pete) Nuffer spoke of the growth of the nursery industry in

the Pacific northwest, and asked the members to think seriously of the problems of the industry and to work continually for the betterment of the nursery industry and the Oregon Association of Nurserymen.

Association Growth

The record turnout at the convention was in direct line with the increase in membership, the greater participation of members in activities of the association and increased interest created by a more active and useful trade organization. The membership of the O. A. N. has increased about 25 per cent in the past three years. The association had its beginning in 1931 and was founded by men who are still active in its operation today. They include its first president, Paul Doty; Wayne McGill; Avery Steinmetz; Bert Miller; Mike Dering, and several other members.

Beginning its 26th year, the O. A. N. has decided to employ an executive secretary, Charles Potter, whose office is now the official address of the O. A. N. Mr. Potter, secretary to two floral organizations and publisher and editor of the Floragram, is no stranger to the nursery industry. Under his leadership, the O. A. N. will be able to better serve its members through centralized management of activities, by more frequent membership



Reed Vollstedt, left, and Wayne Melott, recently elected to serve on the board of directors of the Oregon Association of Nurserymen as directors at large during the coming year.

mail contact and by having its executive informed on legislative and trade matters of importance to the association. It is planned that a trade report or bulletin from the office of the executive secretary and association will be mailed quarterly to the membership and other interested persons in the state and nearby areas.

Heading the list of special committee reports was that of the public relations committee, with Sam Rich, chairman; James Doty, and Wayne Melott. Chairman Rich reported on the success of recent publicity to counteract the bad publicity and consequent lack of interest in gardening of the homeowner resulting from initial reports of the severe early November freeze. As a result of the development of ideas by the



W. P. Nuffer, seated, left, retiring president of the Oregon State Nurserymen's Association, looks over the convention program with new officers elected for 1956 — standing, left, Joe Klupenger, second vice-president, and right, Paul Van Allen; seated, right, Melvin Surface, president.



Paul Doty, first and also third president of the Oregon Association of Nurserymen, receives honorary membership in the association from Avery Steinmetz, honorary membership chairman. Mr. Doty, with a few other active members, spearheaded the organization of the association 25 years ago.



Several members of the committee which is planning a rousing welcome at Portland for the nurserymen aboard the special convention train of the American Association of Nurserymen next July; left to right, Robert Mullison; Joseph Klupenger; chairman Paul Van Allen; James Doty, and Dan Schmidt.

committee and Ted Waggoner, farm, home and garden editor of the Oregonian, Sunday garden sections of Portland's two leading newspapers were devoted to information about freeze damage and why it occurred, and where the public might obtain advice and help or guaranteed good-quality plant materials.

Short Course Plan

R. A. Walker, of the educational committee, with A. N. Roberts, horticulture department, Oregon State College, reported on the need for and benefits of a short course to inform nurserymen, florists and landscape men on new cultural methods and agricultural research. It was suggested that such a venture, in cooperation with other interested organizations, would give Oregon a yearly event similar to short courses held in Ohio, California and other states.

Other committee reports included that of the retail nursery committee under the chairmanship of Wayne Melott. This active committee, meeting monthly for dinner, has worked up association ads for the newspapers, featuring the O. A. N. emblem and the reliability of firms displaying it. The committee has fostered closer cooperation among the retailers of the state and has brought to its members ideas and plans for better handling and merchandising of nursery materials.

The association went on record as favoring establishment of a government experimental station in the Portland area, to do research on vegetables, small fruits and ornamentals.

In a timely report to the nursery-

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Sales Talk

Highlighting the second day's business meeting was the address of William W. Marsh, of the W. W. Marsh Promotion Co., speaking on, "It Takes Sales to Make a Profit." Mr. Marsh reviewed the basic marketing problems: Advertising, market research, sales promotion, merchandising and personal selling and stated that if all were being carried on, an organization would be making money. He went on to define sales promotion, the chief marketing problem, as working directly with anything or anyone who can influence the sale or resale of the product being sold. Mr. Marsh stated that in simple terms the basic problem is how to get John Q. Public across the barrier to the nurseryman.

He described merchandising as marketing strategy, to get the right product to the right place in the right quantity at the right time, and encouraged the members first to rely on observation of the buying public.

Mr. Marsh discussed the importance of customer relations and explained in detail how to arouse interest, tell the story and make the sale. As important points to remember in making sales, he urged that nurserymen make the telephone a better sales aid and courtesy a byword. Retailers, in their layout and manner of approach, must make it easy for the customer to buy, he stated, and in conclusion he said that regardless of conditions, the nurseryman must look happy, make the customer happy, look successful and above all rely on past experience as a guide.

In the Grand ballroom, where the O. A. N. held its first banquet 25 years ago, President Nuffer introduced the retiring officers of the association. He then turned the meeting over to Avery H. Steinmetz, chairman of the honorary membership committee, who stated that it was altogether fitting on the 25th anniversary of the association that the group honor the man who spearheaded the formation of the association in 1931 and became its first president, Paul Doty.

A. A. N. Chapter Meeting

A brief meeting of Oregon chapter of the American Association of Nurserymen was held, with President James Doty presiding. Plans for entertaining the 1956 A. A. N. convention train were reviewed. Festivities for the convention train will begin with a breakfast at the Multnomah hotel, Portland, July 11. The morning will be devoted to scheduled sightseeing tours, shopping or nursery visits as desired. A reception and cocktail party in the late afternoon will precede a gala salmon bake to be held in the Hoyt Arboretum near the famous Portland rose test gardens. Fun, dancing and fellowship follow in the hospitality room of the hotel before late boarding of the special train for points south and Los Angeles, Calif.

The status of delegates to the A. A. N. convention was reviewed, and delegate positions to be filled at a later chapter meeting were announced. New chapter officers to serve for the coming year are W. P. Nuffer, president; Melvin Surface, vice-president; Paul Van Allen, secretary-treasurer, and Dan Schmidt and Robert Mullison, executive committee at large.



Nurserymen planning the formation of a southern Oregon chapter to augment present state association, left to right, C. E. Malitz, Sutherlin; Mr. and Mrs. Alan Baker, Klamath Falls; James Roaf, department of agriculture; E. M. Stansfield, Medford, and J. Vernon Marshall, Medford, president of the Rogue Valley Nurserymen's and Growers' Association.



New officers of the New England Nurserymen's Association, left to right, Robert Kempenaar, Newport, R. I., vice-president; Alfred L. Angel, Newport, R. I., treasurer; Dick Van Heiningen, Deep River, Conn., president, and Erwin W. Whitham, Manchester, Conn., secretary.

New England Elects At Annual Meeting

By Erwin W. Whitham

From the time the registration desk opened the morning of February 7 until the gavel rapped for adjournment the afternoon of January 9, instruction and good fellowship pervaded the annual meeting of the New England Nurserymen's Association at the Hotel Kenmore, Boston, Mass.

The election of officers for 1956 resulted as follows: President, Dick Van Heiningen, Van Heiningen Nurseries, Deep River, Conn.; vice-president, Robert Kempenaar, Boulevard Nurseries, Newport, R. I.; secretary, Erwin W. Whitham, Whitham Nursery Sales Agency, Manchester, Conn., and treasurer, Alfred L. Angel, Case Hoogendoorn Nursery, Newport, R. I.

Harold Stevenson, Stevenson Landscape Service, Rockland, Mass., and George Tuoti, Tuoti Landscape Co., Ridgefield, Conn., were named to the executive committee.

Dick Van Heiningen, Case Hoogendoorn; Frank White, White Landscape Service, and Joel Barnes, Barnes Bros. Nursery Co., Yalesville, Conn., were named to the board of governors of the American Association of Nurserymen. Alternate members of the board of governors of the A. A. N. are as follows: Edward Pagliarini, Warwick Nurseries, Cranston, R. I.; William Vittner, Vittner's Gardens; F. Stedman Snow, Winslow Nurseries, Inc., Needham, Mass., and Hendryk Verkade, Jr., Verkade's Nurseries, Paterson, N. J.

Luncheon Program

Opening events of the convention were a social hour and a luncheon Tuesday noon. Arno H. Nehrling, executive secretary of the Massachusetts Horticultural Society, was the

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Charles A. Godin, Adams Nurseries, Westfield, Mass., president, made the opening remarks as the convention was called to order. Speaking of the group's successful year, he referred to the summer meeting, which drew an attendance exceeding 500, with 150 firms represented. Also mentioned were a growth in membership and association funds. Despite adverse weather condition, he said, last year was a prosperous one for the nursery industry. Prospects are bright, he added, as building continues and highway construction increases. The progress made by the American As-

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Reports from the secretary-treasurer and from the chairmen of the standing committees were followed by appointment of the nominating committee, consisting of Joel Barnes, Harry K. Eastman and J. C. Brownell, chairman.

"Plant America" Awards

At the luncheon Tuesday, two "Plant America" awards were pre-

[Continued on page 58]



F. P. Morse, left, general manager, Statler hotel, Hartford, Conn., receiving a "Plant America" award from Valteau C. Curtis, right, director of the American Association of Nurserymen. With Mr. Morse is Peter Cascio, center, a past president of the A. A. N., who received a similar award for landscaping the hotel. Mr. Cascio has won an award of this kind for three consecutive years. The Statler awards were presented at the recent convention of the New England Nurserymen's Association at Boston, Mass.

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Speakers at the annual school for nurserymen at Farmingdale, L. I., left to right, Dr. A. M. S. Pridham, Dr. K. L. Robinson, Dr. John Cornman, Spencer Prentiss, Dr. D. S. Welch, Robert Brewster, James McFaul and Dr. Robert Trees.

Long Island School Hears Research Report

By Clarence E. Lewis

In another cooperative venture, the extension services of Nassau and Suffolk counties, New York, held their annual nurserymen's school at the Long Island Agricultural and Technical Institute, Farmingdale, N. Y., January 25. In attendance were 103 nurserymen.

Robert Brewster, associate county agent, Suffolk county, acted as chairman. He opened the session by explaining the changeover from farm bureaus to extension services. Dr. A. M. S. Pridham, extension specialist, Cornell University, Ithaca, gave a review of research on ornamental plants which had been conducted by various specialists in 1955. Following is a summary of the talk:

The effect of day length and temperature on the control of flowering and vegetative growth showed the following results when cuttings were submitted to eight hours' normal day length, plus 10 hours of incandescent light: Growth of pink-flowering dogwood, weigela, *Viburnum carlesii* and *Viburnum opulus* was approximately three times as great as that of the same plants grown under nine and 12 hours of daylight. Plants given long days continued active growth, while those given short days became dormant, with no further growth evident.

The most practical application of the test results is to give additional

light to seedlings and rooted cuttings, since many plants can be lighted at that stage with a minimum cost of electricity.

Rooting of Cuttings

The effect of humidity, light, rooting medium and temperature on the rooting of various cuttings was next explained. In such plants as white pine or oak, a difference exists between the rooting of cuttings taken from juvenile tissue (3 to 4-year-old seedlings) and cuttings from mature tissue (30-year-old trees). The cuttings of juvenile tissue root reasonably well, while those of mature tissue do not root at all, even with the help of synthetic hormones. Flowering in some cases also influences rooting. For instance, rhododendron cuttings root well in an acid medium if the terminal bud is vegetative, but if the terminal bud is a flowering one, rooting is depressed. When the flower bud is removed the percentage of rooting is improved, but when the vegetative bud is removed the percentage of rooting is lessened, as compared to the rooting of vegetative cuttings with vegetative buds left on. These experiments suggest that some substances originating in the terminal bud regulate the rooting of rhododendrons. Chemists have practically given up the hope of extracting and purifying these substances be-

cause they are present in such minute quantities. A new technique, however, that of paper chromatography, is being used at Cornell University to approach the problem from a new angle and has already enabled technicians to separate some of the stimulating and inhibiting factors.

Roses taken from cold storage, where they had been held at 28 degrees Fahrenheit in closed polyethylene bags from digging time in December, 1954, until September, 1955, were set in the greenhouse under automatic mist. The mist was regulated either by a time device or a photoelectric timer so that the twigs and later the foliage were never dry during daylight hours. This procedure resulted in 100 per cent viability as compared with 95 per cent for normal planting and watering. Growth under mist was approximately double that under good greenhouse procedures, and the plants were also free of mildew. Flowering was more abundant, and the keeping quality of the blooms was at least equal to normal experience. The use of closed storage for nursery stock and automatic watering appear to have many practical advantages for the nurseryman.

Mist Propagation

Mist propagation and the storage of rooted and unrooted cuttings proved to be an interesting experiment. Intermittent mist has many advantages over constant mist in that the results show better rooting, less leaching and the elimination of drainage problems. Rooting media can vary from sand to pure peat moss; good results are achieved for a large variety of ornamentals from a mixture of one part peat moss to three parts sand.

The time in which cuttings are taken is extended somewhat by the mist technique. Best results, especially with deciduous shrubs, are obtained when the cuttings are quite soft, or at least softer than one would normally handle them for double-glass propagation. It was found that unrooted cuttings taken in the early fall and stored until January rooted better than cuttings taken directly from the field in January.

Dr. Pridham concluded his talk by showing slides and speaking about the development of better equipment for mechanical weed control in the nursery.

Landscape Plants

Dr. John Cornman, also an extension specialist at Cornell University, held the spotlight with colored illus-

[Continued on page 62]

Southern Group Has Lively Trade Meet

By Robert Boyd

Approximately 250 nurserymen attended the winter trade meet of the Southern Nurserymen's Association at the Biltmore hotel, Atlanta, Ga., January 29 to 31. With interest high, the group enjoyed a lively session of buying, selling and trading, and all agreed that the meet was a big success.

Early arrivals gathered in the Exhibition hall Saturday, January 28, to set up exhibits. About 25 exhibitors displayed items of interest to nurserymen.

L. B. Scott, executive secretary of the Southern Nurserymen's Association, was in charge of registration, which began Sunday afternoon. Mr. Scott was assisted by Willette Hume, executive secretary of the Georgia Nurserymen's Association, and Floride Pollard, Spartanburg, S. C.

Sunday, January 29, the board of directors of the S. N. A. met for the annual midwinter session. John Wight, Wight Nurseries, Cairo, Ga., met with the group to discuss plans for awarding the Slater-Wight memorial trophy to an outstanding nurseryman at the annual convention, to be held at Nashville, Tenn., in August. Also discussed were tentative plans for the convention, for which the Tennessee Nurserymen's Association, the Middle-Tennessee Nurserymen's Association and the Davidson County Nurserymen will be joint hosts. President George Sawada, Mobile, Ala., wielded the gavel during the session.

The education and promotion committee of the S. N. A. met Sunday afternoon, at which time Nor-

wood Hastie, Charleston, S. C., discussed a promotion by the Charleston merchants, who distributed free redbud seedling trees to promote their trade. Each merchant was allotted 500 trees and could give them away as he wished. About 17,000 trees were disposed of within an hour, and most merchants needed more trees. There was so much interest in the project that the biggest problem was a traffic jam. The promotion took place in November. During February, a dogwood promotion was to be sponsored by the Charleston chamber of commerce.

It was agreed that merchant groups could stimulate their sales by similar activities in other communities. Several other cities in the southern trade area are also sponsoring planting activities, with local nurserymen assisting in the activity.

In the evening the group attended a showing of the American Association of Nurserymen's film, "Selling Quality."

On Monday morning the group enjoyed a bus trip to the H. G. Hastings Co. garden center. One of the largest establishments of the kind in the country, the center is located five miles from downtown Atlanta on six and one-half acres. The garden store is approximately 40x80 feet, the lath house is 130x130 feet and the parking area will accommodate 125 cars. Approximately 2,500 shrubs and trees have been planted. The amphitheater is found to be most important, catering to garden clubs and other civic clubs, particularly in the summer.

Luncheon was served in the Biltmore Exhibition hall, with President George Sawada presiding. W. Elbridge Freeborn, vice-president of the H. G. Hastings Co., spoke to the group on "Garden Center Merchandising" and gave several enlightening facts on the planting and operation of a garden center. Mr. Freeborn stated that before the garden center was constructed, several similar types of operation were visited in other parts of the country, in search of ideas. The garden store is actually a combination of several different types of stores carrying the complete lines necessary to cater to young folks having no knowledge of gardening activities. Here they may buy anything necessary for successful gardening. The trend today is to larger families and to urban families moving to the country. With slum-clearance programs, do-it-yourself trends, more leisure time for all, better parking facilities at garden stores and many hobby enthusiasts who disregard cost, there is a definite place for garden stores.

The rest of Monday afternoon and Tuesday morning were spent in selling and trading activities. The session concluded Tuesday at noon.

ANDREW R. PALOMBO CO., Pittsburgh, Pa., recently filed articles of incorporation with the Pennsylvania state department. The company will engage in general nursery business, landscaping, site improvements and road, highway and recreational facilities construction.



Officers attending southern nurserymen's trade meet, left to right, Robert Boyd, McMinnville, Tenn., treasurer; Jack Aichele, Mount Holly, S. C., vice-president; L. B. Scott, Spartanburg, S. C., executive secretary; Dan Reynolds, Winston Salem, N. C., director; George Sawada, Mobile, Ala., president, and Hoskins A. Shadow, Winchester, Tenn., director.

Advertising, Pricing, Fertilizers Discussed at Kalamazoo Meeting

By Fred McLinden

Icy road conditions which threatened to curtail attendance fortunately eased in time so that approximately 125 members and their guests registered for the fourth annual mid-winter educational conference sponsored by the Kalamazoo Valley Landscape and Nurserymen's Association February 7 at the Hotel Harris, Kalamazoo, Mich.

The meeting room of the hotel was gaily decorated in a spring motif of white flowering dogwood, underplanted with blooming daffodils and tulips. A redwood planter box in front of the speakers' table was filled with pink azaleas. Commercial exhibits featuring various phases of the nursery business were attractively displayed around the sides of the room.

Fertilizers

Dwight Hitchcock, Light's Tree Co., Richland, association president, introduced the first speaker, Dr. Fred Widmoyer, horticulture department, Michigan State University, East Lansing. Dr. Widmoyer spoke on the subject, "Fertilizers for the Lawn Builder and Nurseryman." He began his talk by telling his listen-

ers that complete fertilizers as we know them today were first put on the commercial market in 1850. Since that time manufacturers have been striving for a higher analysis complete fertilizer. The increased use of urea as a source of nitrogen and the pelleted form of fertilizer are recent developments. Pelleted fertilizer will not cake and allows a more even distribution. Also the slower breakdown of the pellet gives increased fertilizer value over a longer period of time.

Dr. Widmoyer cautioned lawn maintenance men to use smaller quantities of fertilizer when feeding lawns. He suggested the application of five pounds of a 10-6-4 fertilizer per thousand square feet of lawn. This amount should be applied at least three times during the growing season, once in late March or early April in the Kalamazoo area, another application in mid-June and the last one by September 1.

Nurserymen were urged to buy fertilizers on the basis of the nutrient count as listed on the bag or container. So-called farm fertilizers would have a comparable value to other fertilizers on the market, pro-

vided the nutrient count were the same. In other words, a 10-6-4 fertilizer would have the same potential fertilizing value whether in a plain or fancy container. Another point brought out was the fact that organic fertilizers have no advantage over a chemical fertilizer in a soil already heavily built up with humus.

In the panel discussion which followed, Harold Hicks, the Cottage Gardens, Lansing, kept a lively question and answer session in motion. Assisting Mr. Hicks were Harold Hunziker, M. J. Hunziker & Sons, Niles; Arthur Watson, the Arthur L. Watson Nurseries, Grand Rapids; Dr. Donald P. Watson, horticulture department, Michigan State University, East Lansing, and James Jones, Jones Nursery & Landscape Service, Grand Rapids.

TV Advertising

Mr. Jones related his nursery's experience in the use of TV advertising. He said that his firm put on a 15-minute TV program from a Grand Rapids station once a week for several weeks last year. He wrote his own advertising material and presented it personally. The staff announcer assisted in the program by acting the part of a potential customer.

Mr. Jones found that the best time to put on this type of program was during the evening. The cost per 15 minutes of program amounted to \$400. He was unable to say just how much this type of advertising influenced his business, but mentioned that his firm did 50 per cent more business in 1955 than in the previous year. Viewer and listener response convinced Mr. Jones that TV advertising has a definite place in nursery selling. He did feel that a firm should be in a position to handle the anticipated increase in business before venturing into any extensive advertising program.

In characteristic good-natured manner, Dr. Watson admonished nurserymen in general for failing properly to promote the product they sell. He called attention to the selling job done by automobile, TV and home equipment dealers. Nurserymen are selling beauty, relaxation and inspiration, and the world can use those things in quantity, he pointed out.

Landscape Plan Pricing

Harold Hunziker presented the pros and cons of pricing landscape plans. He feels that this subject is open to many points of view and that the final decision must be left to the

[Continued on page 139]



Officers and other participants in the convention program of the Kalamazoo Valley Landscape and Nurserymen's Association at Kalamazoo, Mich., left to right, seated, Mayor Glenn S. Allen, Jr.; Fred Widmoyer; Joseph Cox; Dwight Hitchcock; George Farley; Dr. Don Watson, and Harlow C. Whittemore; standing, Fred McLinden, Robert West, Hubert Lott, Arthur Watson, James Jones and Harold Hunziker.

Operating a Garden Center

Chapter 7. Selection of Nursery Stock

By John J. Pinney

When you have your garden center all set up you are ready to determine the kind of merchandise to carry. The selection may seem self-evident, but there is a terminology developing that confuses the issue. Springing up all over the country are establishments that are called garden supply stores or garden shops, where one would expect to find trees, shrubs and plants with which to establish or develop a garden.

Surprisingly, many of them offer no plants at all, but carry in stock only such things as garden tractors, power mowers, sprayers, dusters, hand tools and possibly fertilizers and insecticides. These stores have pirated the term "garden supplies" and applied it to merchandise used only in the maintenance of gardens and lawns. They would be more properly designated as hardware stores or implement shops.

Plant Stock Considerations

If it is your desire to operate a garden store or garden center in the true meaning of those terms your chief stock in trade will be trees, shrubs, evergreens, rosebushes, perennials, bulbs, seeds, etc.—in short, all things that are needed for the creation and development of a garden.

The word "garden" itself needs some definition. In America the term "garden" stimulates a mental picture of a special area set aside for the culture of roses, perennials, vegetables or other specialized plants. In Europe, where the practice of horticulture is many centuries older than in America, the term has a more inclusive meaning. A garden abroad refers to the entire area surrounding a home or institution that has been developed by means of living plants. That is the sense in which the word "garden" should be used in the term "garden center."

If you are an experienced nurseryman, but are starting a garden shop for the first time, any discussion of the assortment to carry would be superfluous. You already know what is in demand and what you can sell. But if you are new in the business you will need all the help you can get to avoid serious errors in laying in your stock of merchandise. Because of the vast extent of this country and the wide variation in its climate, the assortments offered differ



The shade house of the Hillenmeyer Nurseries, Lexington, Ky., entirely surrounds the garden, shop and office building. Note the inviting entrance and the open construction which permits viewing the merchandise from the outside.

greatly. Nurserymen must have palms in southern California, but it would be ridiculous to offer them in Minnesota.

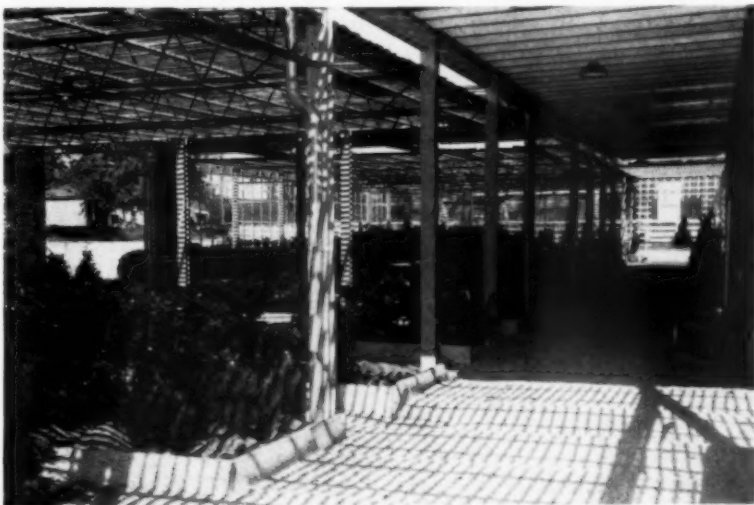
Observe Others' Practice

It is not possible to cover this subject adequately here, but that does not mean the situation is hopeless or that you will have to learn by trial and error—not at all. There are several ways open to you. If there are other garden centers in your neighborhood, visit them, especially those that are well established and successful, and observe the classes of

materials they offer. Get acquainted with the owners and tell them your problems. The chances are they will be glad to help. As a rule, folks who make their living from the production and sale of plants are fine people and are glad to share their knowledge, even with competitors.

However, if you wish to avoid any possible embarrassment by consulting those who may regard your possible competition unfavorably, you could visit garden centers in other cities to find out what classes of plants sell best—evergreens, shade trees, fruit

[Continued on page 79]



Well-planned and attractive arrangement of beds in the Hillenmeyer garden center shade house. The area above the ceiling lights is covered with a waterproof roof to permit shopping in rainy weather. This roof completely encircles the building and extends to each of the four entrances.



Jack Siebenthaler, Dayton, O., points up the many pleasure values of home landscaping during landscape gardeners' day at the recent Ohio short course at Columbus.

Landscape Selling

Stress on the satisfactions in landscape development to be derived by homeowners was the objective of John Siebenthaler, Siebenthaler Co., Dayton, O., in a talk before the landscape gardeners January 17 at the recent short course held at Columbus.

Landscape gardeners and nurserymen are in a position to give customers more pleasure with their products than are most salesmen, he said. While a buyer enjoys great use from a refrigerator or automobile, his senses are more satisfied by what the landscape man can supply. Subjects to be promoted by the plantsman are the beauties of flower and plant materials, the pleasure of a cool patio on a summer day or a heat trap on a cold day, the quiet provided by a screen-planting that blocks out street noises, the delightful sound of running water in a pool and enjoyment of fruit from one's own tree.

Landscape development satisfies several basic desires of individuals, including that for material gain, since landscaping adds to the value of property, Mr. Siebenthaler pointed out. A romantic setting can be designed among roses. A sunny patio or shade trees stimulate healthful outdoor living. A hedge along a sunken drive adds a safety feature and can be more presentable than a fence. Landscaping provides a creditable—and economical—way to keep up with or surpass the Joneses.

Mr. Siebenthaler said that the landscape man should encourage the customer to consider landscaping a hobby and to be interested in change in plants or in the arrangement of

the landscape. He remarked that domestic happiness is always furthered if the couple are engaged in a rewarding hobby such as landscaping.

Mr. Siebenthaler declared that outdoor living is more than a trend; it is an established fact, and a garden exists as a place for people to live, work and play. Outdoor living can be enjoyed with no more than just a few pieces of garden furniture, which not only make added sales articles with a landscape job, but can often justify the landscape. Color effect in the landscape need no longer be obtained only from constantly blooming plants, but also from furniture, colored concrete patio blocks, colored mulch materials and other accessories.

Something different in the way of effect can be obtained from night lighting of the garden. Using common sense rather than attempting fancy lighting effects in the garden can make this living area useful for as many hours as are wanted. In the landscape design, the play area can be formalized or adapted for play.

The service area should be as small as possible and need not be unattractive. Privacy for the service area—and the whole yard as well—can be obtained in several different ways. Mr. Siebenthaler suggested avoiding the usual hedgerow and using one, two or three flowering trees to serve the purpose and also to modify the climate in the area by their alteration of the effects of sun and wind.

Salesmen must not only suggest materials to be used in the landscape, but must make them available to the

customer. Among these items are patio blocks, which are becoming more useful all the time, for instance in connection with portable grills, which are practical and inexpensive. Pots and flower containers are colorful all summer, as are hard mulches, such as crushed rock, brick or tile, and these are often economical and may make a permanent addition to the garden. Nearly everyone loves a pool, and even the smallest one, such as a birdbath top with dripping water, can give hours of pleasure. Plants, as a rule, should be planted for both beauty and utility.

Mr. Siebenthaler described many planters as a selling crutch for the home builder and a selling headache for the landscape nurseryman. Most planters are poorly designed, being too small, having poor drainage and being located where they get no rain. He said that if nurserymen are consulted before the planter is built and are unable to talk the homeowner out of having it, they should try to have the unit made with better design and construction and should insist on good soil, drainage and, if possible, a means of watering. The frequent roof overhang at least has good effects in shading the windows and forcing the placing of plant material out away from the house.

In planting the planter, severe, formal plants should be avoided. *Hedera helix*, *Euonymus fortunei* and *pyracantha* were suggested as suitable. Plants should not be restricted to the box, but should give an effect of leading down from it and out to plants in front. Instead of using plants all of one type, the planter should mix deciduous and evergreen plants. Common annuals such as *petunia* and *lantana* may be used. These practices will give a softening effect to the container.

If the services offered to a customer lead him to say something is expensive, it is effective to compare the costs of the landscape work or products with familiar articles of purchase. One can indicate that the price of one planted 2-inch shade tree or two flowering crab apples five to six feet high is about the same as for a pair of women's shoes. The cost of a 21-inch TV set, 50 to 60 roses planted in a bed or a 5-inch planted shade tree is about the same. For the price of a 10-foot refrigerator a homeowner can have 400 square feet of brick patio or a juniper hedge 65 feet long and 5 feet high. Good landscaping gives a luxury effect that appeals to customers.

Landscaping should be dynamic, and nurserymen, who are in com-

[Concluded on page 60]

Michigan Convention at Detroit

By Donald Vanderveen, Jr.



J. J. Poleo, president of the Michigan Association of Nurserymen, left, assists in planting a white pine near Detroit's City Hall, while Mayor Cobo of Detroit looks on.

Over 250 Michigan nurserymen gathered at the Fort Shelby hotel, Detroit, January 25 to 27, for the 34th annual convention of the Michigan Association of Nurserymen.

Officers re-elected for 1956 were J. J. Poleo, Ilgenfritz Nurseries, Inc., Detroit, president; Bernard Ward, Ward's Flower Ranch, East Lansing, vice-president; George G. Farley, Inland Orchards & Nurseries, Marshall, secretary-treasurer, and Harold Hicks, the Cottage Gardens, Lansing, and John Stark, Stark Nursery, Midland, directors. New directors are Joseph F. Reske and Lester Begick.

The group also appointed, as delegates to the national convention of the American Association of Nurserymen, James Ilgenfritz, Ilgenfritz Nurseries, Inc., Monroe; George G. Farley, and Arthur Watson, Arthur L. Watson Nurseries, Grand Rapids.

Alternate delegates appointed were George Greening, Greening Nursery Co., Monroe; Walter M. Coon, Farmington Gardens Nursery, Farmington, and Harold Hicks.

The program, arranged under the chairmanship of Joseph F. Reske, began with the planting of a 10-foot white pine on the lawn of the new City Hall in Detroit. The white pine is the state tree of Michigan. Joseph Poleo, president of the state association, was assisted by Mayor Cobo and "Miss Michigan of 1954" in planting the specimen. The members then were taken on a guided tour of downtown Detroit and its new developments. In the evening everyone gathered in the Sky room of the Fort Shelby hotel for the annual get-together.

President Poleo welcomed the group at the opening lecture session

January 26. He pointed out the value of such public relations projects as the pine tree planting to the industry. This event was covered by television, radio and the Detroit newspapers.

Licensing and Inspection

Mr. Poleo then introduced John Light, Light's Tree Co., Richland, moderator of the opening panel. Michigan director of agriculture George McIntyre; Cy Boyer; Dean Lovett, division of plant industries, and Paul Armintrout, Armintrout's Evergreen Nursery, Allegan, comprised the panel which discussed legal requirements in moving nursery stock and living Christmas trees. They pointed out that foreign importers must have licenses in each state in which they sell, but that

[Continued on page 117]



Officers of the Michigan Association of Nurserymen, standing, left to right, Ernest F. Durrant, Joseph Reske, Clifford Em-long, John Light, John Stark and Harold Hicks; seated, left to right, Bernard Ward, vice-president; Joseph J. Poleo, president, and George G. Farley, secretary-treasurer.

British Columbia Meeting

By V. B. Johnson

The annual meeting of the British Columbia Nurserymen's Association was held January 26 at the Astor hotel, Burnaby, B. C. More than 100 nurserymen attended the day's session, mostly given over to discussion and talks by well-known northwest garden authorities.

Re-elected to serve his second term as president of the association was Lloyd Smith, Burnaby. J. L. Jack Petty, Langley, was elected vice-president, and Mrs. Margaret Hunter, Vancouver, will serve her second year as secretary. George Wilcox will represent interior growers as director, while George Fagerberg, Layritz Nurseries, Ltd., Victoria, will represent Vancouver Island. Lower mainland directors are John Murray, V. B. Johnson, James Lang, K. Vanness, J. H. Eddie and David Hunter.

The membership committee report was given by S. A. McPherson, the frost damage report by J. H. Eddie and publicity information by V. B. Johnson.

An invitation to hold the summer meeting in the Okanagan valley was extended by George Wilcox, Oliver.

Frost Damage Report

After a welcome by Reeve MacSorely, Burnaby, the first of the afternoon talks was given by Dr. John Neill, of the University of British Columbia. He showed colored slides illustrating frost damage on a wide

range of shrubs grown at the university. Losses were most severe on such broad-leaved evergreens as ceanothus, choisya and some rhododendrons, while twigs only of *Cornus florida* and *Prunus laurocerasus* were frozen.

W. D. Christie, British Columbia government nursery crop specialist, presented the results of his production survey. Mr. Christie also dealt with some aspects of inspection and the possibility of developing certification for fruit trees.

Dr. John H. Hanley, garden columnist and writer of Seattle, emphasized the importance of giving full cultural instructions when selling nursery stock. If the nurseryman stresses the value of watering, liquid

fertilizing and mulching, stock survival is greatly increased.

Research Problems

Guest speaker from Oregon State College, Corvallis, was Dr. A. N. Roberts. Because of limited time he was able to make mention only of some of the studies being carried on at the college. Among the subjects dealt with were nutrition, rootstocks, and variety selection. A great deal of interest in these matters was shown by the audience.

Some remarkably fine color transparencies of Great Britain's gardens were shown by Dr. T. M. Taylor, of the University of British Columbia. The tour, taken last summer, covered all the well-known botanical gardens and many private estates.

The film, "Landscape for Living," prepared by the American Association of Nurserymen, was shown after the evening banquet.

Canadian Convention Close

The final day of the annual convention of the Canadian Association of Nurserymen, held at the Sheraton Brock hotel, Niagara Falls, Ont., January 25 to 27, featured a landscape session in the morning, with interesting films and pictures. G. McDonald, Hillside Gardens, Strathroy, Ont., was chairman.

The new film of the American Association of Nurserymen, "Landscape for Living," was shown. Members were told that the C. A. N. had purchased the film and that it could

be rented by members for a nominal sum. This film was followed by another, entitled "Rosarama," a story of certified roses, prepared by the Mount Arbor Nurseries, Shenandoah, Ia., Jack Aitken then showed a short film depicting seeding.

In a talk entitled, "Modern Homes Require Modern Planting," G. McDonald stressed the need for individualism. The old pattern is changing, and a pattern that will not be dull should be introduced. Mr. McDonald regards the small homeowner as the customer in the front line for planting and believes that attention should be given to helping and educating him.

Customer Education

Art Fitzsimmons, speaking as a member of the landscaping panel, stated that the American trend is third-dimensional planting. He said that customers do not always have clear opinions on what they desire and that they must be educated by mind pictures and suggestions. A problem in landscaping he mentioned is fitting the price to the customer and the job to the price. He considered it a more satisfactory method of pricing to quote by the job rather than to itemize stock. In job pricing there should be an implicit guarantee, with replanting if necessary. If the job warrants it, an inspection service makes for good public relations.

Harry Brumpton concluded the [Continued on page 72]



Officers and directors of the British Columbia division, Canadian Association of Nurserymen, left to right, J. H. Eddie, Vancouver; George Wilcox, Oliver; V. B. Johnson, Vancouver; Lloyd Smith, Burnaby, president; Mrs. Margaret Hunter, Vancouver, secretary; J. L. Petty, Langley, vice-president, and, kneeling, David Hunter, Vancouver.

Varied Talks at Delaware Course

By C. W. Dunham

The fourth annual Delaware nurserymen's short course, held at the University of Delaware, Newark, Del., January 31, was attended by 90 nurserymen from the state and adjoining areas.

Dr. Francis DeVos, assistant director of the National Arboretum at Washington, D. C., opened the program with an excellently illustrated talk on newer plants with landscape possibilities in Delaware. Dr. DeVos pointed out that there are many new plants obtained from recent plant introductions, natural mutations and hybrids that are worthy of trial, but there are still many old plants which are little known but just as worthy. *Acer davidi* is a small (30-foot) maple that has never been widely used in the nursery trade, but its fine, yellow fall foliage and interesting white-striped branches in winter make it a good landscape prospect. *Pyrus calleryana* is a blight-resistant Chinese pear with good ornamental characteristics. There is a great deal of interest in *Camellia sasanqua* in the Delaware area, and Dr. DeVos recommended the following varieties as being worthy of trial: Rosy Mist, Papaver, Splendor, Shishigashira, Cleopatra, Orchid, Sowa-no-sakae, Hiodoshi, Crimson Tide and White Glory.

Of the new and less well-known hollies, *Ilex pedunculosa*, a smooth-leaved holly with long-stalked, bright red fruit; *Ilex serrata*, the Asiatic counterpart of our black alder, and *Ilex aquifolium camelliaefolia*, an English holly with many spineless leaves, a purplish cast in winter and

somewhat sparse but large and showy fruit, have been outstanding at the arboretum.

Among the new deciduous shrubs, an excellent variety of *Clethra alnifolia* called Pink Spire has been developed at the National Arboretum and is now being distributed.

Growing in Containers

Arthur Lancaster, Jr., junior partner and general manager of Coleman Nursery, Inc., Portsmouth, Va., gave a talk on the nursery's experiences in handling plants in containers. Mr. Lancaster said the firm processes its own cans and finds it results in a saving, in addition to making rainy-weather work for the year-around help. Cans are washed, four holes are punched in the bottom and the containers are dipped in a thinned asphalt paint in an assembly line operation. A potting soil made from two parts peat, one part soil and one part coarse sand is used in the cans. Good drainage is essential. A fertilizer containing cottonseed meal as a source of nitrogen is added to the potting soil at the time of mixing. Regular and frequent fertilizer applications are necessary with container-grown stock. Mr. Lancaster emphasized the importance of proper spacing of canned material in the nursery beds. Crowding results in plants which are poorly filled out at the base.

Mr. Lancaster cited the increased labor costs in handling plants in containers, especially in watering. However, he felt that this cost was more than offset by the increased rate of

growth of container stock and the increase in flexibility of sales operation provided by canned material. Plants can be sold the year around, special displays can easily be set up and plants grown in cans transplant so well that the nursery can afford to guarantee every plant sold.

Chemical Weed Control

Chemical weed control in nursery crops was discussed by Dr. Arthur Bing, of the Farmingdale ornamentals laboratory of Cornell University. At the present time, Dr. Bing feels that the greatest use of chemical weed killers by nurserymen can be made in controlling weeds in seedbeds and fields which are to receive liners. Ridding fields and seedbeds of weeds prior to planting can save money and time in weeding after the crop is planted. A system which might be used would be to destroy as many weeds as possible by cultivating during the summer. In the fall after cultivation and while weeds are small, chloro-IPC, dinitro or TCA should be applied.

In seedbeds, steam sterilizing and methyl bromide fumigation were recommended, as both these treatments kill fungi and nematodes as well as weeds.

Weeding between the rows of nursery crops with chemicals is still hazardous. Dinitro and chloro-IPC are safe during winter and early spring while plants are dormant. Crag herbicide No. 1 is the safest material to use during the summer.

James Wells, Bobbink Nurseries,

[Concluded on page 70]



Speakers and members of program committee of Delaware nurserymen's short course, left to right, Dr. Arthur Bing, Cornell University, Ithaca, N. Y.; Arthur Lancaster, Jr., Coleman's Nurseries, Portsmouth, Va.; James Wells, Bobbink Nurseries, Inc., East Rutherford, N. J.; Elton Lynch, Del-Mar-Va Nurseries, Milford, Del.; Mr. Jones, Diamond State Nurseries, Milford, Del., and William Fredericks, Jr., Mill Creek Nurseries, Newark, Del.

Business and Shade Tree Talk At Western New York Meeting

By William F. Kelly

B. B. Stangler, Land O'Trees Landscape Service, Williamsville, N. Y., was re-elected president of the Western New York Nurserymen's Association at its annual meeting held at the Hotel Sheraton, Rochester, January 20. Daniel Quigley, Maxwell, Bowden & Rice Nursery, Geneva, was advanced to first vice-president, while Clarence Vanderbrook, C. W. Stuart Co., Newark, was named second vice-president. William Boocock, Four Winds Nursery, Eggertsville, was named to replace William F. Kelly as secretary-treasurer. Everett Monin, Al Synesael and Maynard DuRies were appointed to the executive committee.

An increase in membership during the past year from 92 to 107 was noted in one of the opening reports. Clarence Vanderbrook reported on the short course held at Cornell University, Ithaca, last December, which was attended by 125 persons. He asked for suggestions on topics that would be of interest for the course next December.

Planting Program

Al Synesael, Jackson & Perkins Co., Newark, gave a report on the "Plant New York" program. He had recently attended a meeting designed to start the ball rolling on the project. Seven representatives of different state departments, including the conservation and forest groups, had also been present at the session. The help of garden clubs in the state is being sought, and it is hoped that industrial interests and the state highway department will go along with the program.

President Stangler appointed the following nominating committee at this time: Al Synesael, chairman; John W. Kelly, Dansville, and Maynard DuRies. Some of the past year's activities and disbursements of funds were then related by President Stangler. William Ozard outlined the European chafer situation and pointed out that \$14,000 was spent by the state of New York to control this pest in outlying areas.

Government Aid Sought

A motion was made by Mrs. Wild and seconded by Richard Holmes, Jackson & Perkins Co., Newark, that the association go on record as favoring an appropriation of federal funds

to combat the spread of the gypsy moth in New York, New Jersey and Pennsylvania.

Mr. Heit explained the new seed law recently adopted in New York state. Dr. A. M. S. Pridham, Cornell University, Ithaca, reported that funds from the New York State Nurserymen's Association will be used to construct a lath house and to study low-voltage heating problems, among other research. Dr. L. H. MacDaniels gave a brief report on the ornamental horticulture department at Cornell University.



Bernard B. Stangler

where he has taken over the duties of the late Dr. Kenneth Post.

In a report on the fruit experiment station at Geneva, Karl Brase stated that some new types of apple rootstock are under test and showing progress. Robert J. Kessler, of the agricultural and technical institute at Alfred University, Alfred, outlined the courses available at the school, and Ernest Schaeffer reported on the 4-H activities in New York state as related to home beautification and landscaping.

Labor Bill

Roy Guyer, Newark, outlined a bill that is now before the state assembly regarding agricultural labor. The bill, No. 182, submitted by Assemblyman Weiser, will include agricultural labor under unemployment insurance laws. He explained how this bill will

have a detrimental effect on nurserymen in the state who employ migrant labor for a part of their work force. After some discussion, the members passed a resolution objecting to the bill.

Wilbur Wright, commissioner of parks of the city of Rochester, stated that recent publicity concerning street trees for the average community had encouraged the use of tailor-made trees, and he said he did not think he was alone in a stand for moderation in the trend.

The type of tailor-made trees available for street tree planting today have the uniformity of a lollipop, hat rack or shaving brush, Mr. Wright said. They have a definite place in street planting, particularly along main thoroughfares and business sections, where there is no room for the well-known shade trees. Utility companies and public works departments advocate planting such trees primarily to relieve interference with overhead wires and to eliminate sewer and sidewalk damage from roots.

Public Interest Can Change

Mr. Wright said he personally should not like to see nurserymen convert shade tree nursery stock to this different type of plant material. The considerable publicity that has been given to the subject and the agitation by various individuals to reduce trouble caused by large trees may lead the nurseryman to feel he must stock tailor-made trees in order to meet a demand. It is Mr. Wright's opinion that in a few years the public is going to be aroused as much against tailor-made trees as it now is in favor of them.

Tailor-made trees could be considered trouble-free and may possibly have tremendous sales appeal for that reason. However, medium-size shade trees have advantages for the community that cannot be ignored. They are an asset not only for their aesthetic qualities, but for the shade they provide, which can keep streets and homes 10 degrees cooler in the summer months, break the wind in the winter and help to keep homes warmer, give an attractive appearance to streets and provide the finishing touch to a well-landscaped area. Mr. Wright remarked that Rochester has been known as the "city of trees," many of its streets having been named for various shade trees, but that it may lose that name if tailor-made types of trees, unobserved by the passing motorists, are planted.

Mr. Wright recommended to nurs-

[Continued on page 131]

UNITED ANNOUNCES

NEW DC-6A CARGOLINERS

Five new DC-6A Cargoliners® are joining the United Air Lines fleet — increasing our all-cargo space by nearly 70%! Each of the new DC-6As carries up to 30,000 pounds of cargo, at 300 miles an hour . . . and accommodates single pieces up to 76" x 81" x 115", and up to 8000 pounds.

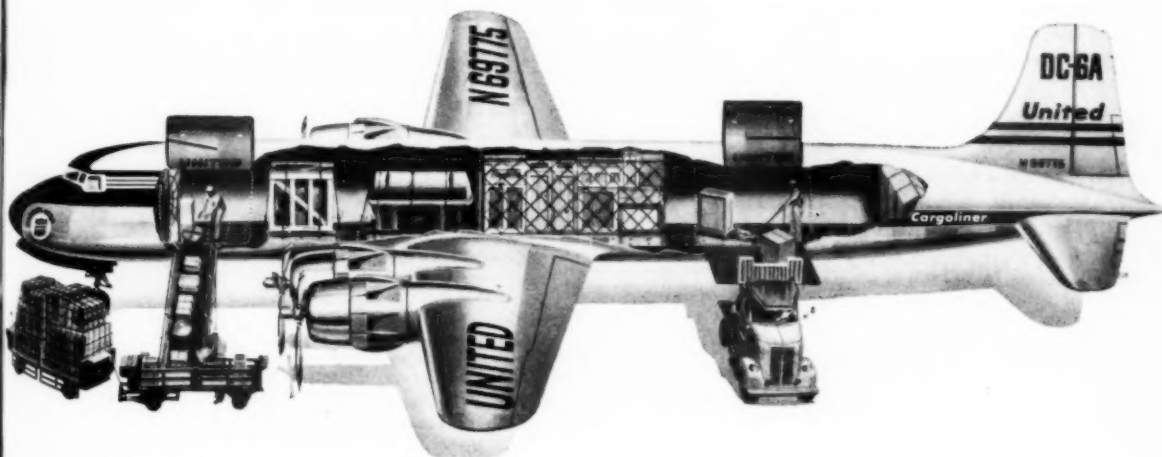
Each is equipped with radar, a United cargo-plane "exclusive" for smoother flight and better on-time performance—plus many other improvements of special interest to shippers.

In addition, all of our regular passenger Mainliners® carry cargo to the 80 cities on our route. And only United offers you these extra services:

Telemeter Air Bill. Special new equipment and United's vast communications system makes possible the handling of complete air bills by wire. Advance notice of expected arrivals is possible while shipments are still in the air. This means the consignee can have pickup arrangements completed when the plane arrives. No "time out" for your shipment!

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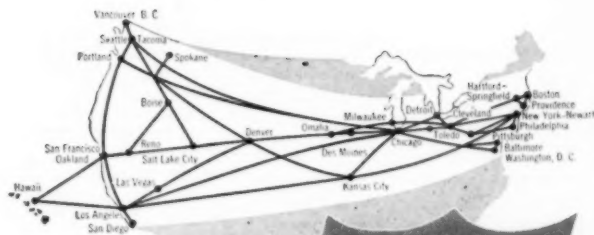


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Separate Temperature Control for cockpit and cargo compartments, so special cargo can be kept as warm — or as cold — as it needs to be.

Aluminum Pallets permit preloading, prevent damage, speed handling.

Special Tie-Downs, nets, compartments and other facilities assure complete protection for perishable or fragile cargo.



For service or information, call or write the nearest United Air Lines Representative. Write for new booklet on air freight tailored to your needs! Cargo Sales Division, Dept. AN-3, United Air Lines, 5959 S. Cicero Avenue, Chicago 38, Illinois.

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FOR—interest
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Have the joy and satisfaction of growing evergreens from all over the world.

**EXOTICS FROM FAR COUNTRIES
NATIVES FROM OUR OWN HOMELAND
HOW ABOUT THESE?**

SHERWOOD PAYS THE COST

The prices here quoted include expert packing and delivery of lining-out stock to you, all shipping charges prepaid to any point in the United States, Canada and Alaska. Lining-out stock is marked with an asterisk (*). The prices on B.R. and B&B stock are F.O.B. Portland. No packing charge on any stock.

25 at 100 rate 250 at 1000 rate

From Western America

Abies concolor (White Fir)

Symmetrical growth and beautiful bluish foliage.

*3 to 6 ins., once transplanted \$ 8.00 \$ 64.00

From High Western Mountains

Abies lasiocarpa (Alpine Fir)

Slender picturesque conifer, silvery tinged foliage.

*3 to 6 ins., once transplanted \$ 10.00 \$ 80.00

From Europe in Shady Places

Ajuga reptans rubra (Purple-leaved Bugle)

Rich green, slightly bronzed foliage, blue flower.

*1-yr. plants \$ 8.00 \$ 64.00

From China

Azalea mollis (Chinese Azalea)

Very hardy. It has an irresistible appeal.

*3 to 6 ins., twice transplanted \$18.00 \$144.00

*6 to 9 ins., twice transplanted 24.00 192.00

AND FOR—that mail-order trade —immediate potting —spring sales in bloom

6 to 9 ins., twice transplanted, 1 to 7 buds. \$35.00 \$280.00

9 to 12 ins., twice transplanted, 1 to 7 buds. 40.00 320.00

12 to 15 ins., twice transplanted, 1 to 7 buds. 50.00 400.00

From the European Specie

Calluna vulgaris aurea (Golden Heather)

Appeals to all who see it. Hardy, new.

12 to 15 ins., once transplanted, B&B \$ 81.00

From the European Specie

Calluna vulgaris rubra (Red Heather)

Brilliant display of flowering beauty.

12 to 15 ins., twice transplanted, B&B \$ 81.00

DID YOU KNOW?

That rhododendrons belong to the Heath family.

From the Oriental Specie

Cephalotaxus harringtonia fastigiata (Plum Yew)

Remarkable columnar yew-like tree.

*6 to 9 ins., once transplanted \$ 20.00 \$160.00

From the Oregon Specie

Chamaecyparis lawsoniana minima glauca (Little Blue Cypress)

A beautiful true dwarf, dark and dense, bluish-green foliage.

*3 to 4 ins., twice transplanted \$ 18.00 \$144.00

From the Oregon Specie

Chamaecyparis lawsoniana monumentalis (Cerula)

Slender column with the sky-blue or azure foliage.

4 to 5 ft., twice transplanted, B&B \$182.00

From the Oregon Specie

Chamaecyparis lawsoniana stewarti (Winter Golden Cypress)

Stately in habit, with green and gold foliage.

18 to 24 ins., twice transp., B.R., near specimen. \$ 45.00

From the Pacific Coast Specie

Chamaecyparis nootkatensis glauca compacta

(Compact Blue Alaska Cypress)

Charmingly blue-green foliage.

18 to 24 ins., three times transplanted, B&B \$122.00

From the Japanese Specie

Chamaecyparis obtusa ericoides (Sander Cypress)

Intense purplish-blue in the winter.

*1 to 3 ins., once transplanted \$ 12.00 \$ 96.00

From the Japanese Specie

Chamaecyparis obtusa nana (Dwarf Hinoki Cypress)

A real genuine dwarf having exceedingly dense, heavy foliage.

*3 to 4 ins., twice transplanted \$ 18.00 \$144.00

From the European *C. multiflorus* x *C. purgens*

Cytisus praecox (Warminster Broom)

Graceful, pendulous, a profusion of cream flowers.

*6 to 12 ins., once transplanted \$ 15.00 \$120.00

From Europe

Daphne mezereum alba (White February Daphne)

Huge quantity of showy white flowers.

*1 to 3 ins., not transplanted \$ 9.00 \$ 72.00

From Alps Specie

Erica carnea (King George)

Flowers bright red, completely cover the plant.

*1 to 3 ins., once transplanted \$ 9.00 \$ 72.00

From Alps Specie

Erica carnea sherwoodi (Sherwood Creeping Heath)

Low growing. Flowers bright carmine-red.

*1 to 3 ins., once transplanted \$ 9.00 \$ 72.00

From Alps Specie

Erica carnea (Springwood White)

Fine low-growing heath. Flowers pure white.

*6 to 9 ins., twice transplanted \$ 20.00 \$160.00

From Alps Specie

Erica carnea (an early red)

It blooms in January and February, bright red flowers.

*3 to 6 ins., once transplanted \$ 12.00 \$ 96.00

From the Japanese Specie

Euonymus radicans coloratus (Purple-leaved Winter Creeper)

A trailing evergreen, very hardy.

*6 to 12 ins., once transplanted \$ 13.00 \$104.00

From Eastern North America

Gaultheria procumbens (Wintergreen)

Fine foliage, pink flowers, red berries, superb.

*2-yr., once transplanted \$ 10.00 \$ 80.00

From the European and Asiatic Specie		Per 100	Per 1000
<i>Juniperus aquifolium angustifolia</i> (Narrow-leaved Holly)			
Slender growing spire-like tree, bright red berries.			
to 3 ins., once transplanted		\$ 15.00	\$120.00
From Japan			
<i>Juniperus crenata</i> (Oriental Holly)			
Small, smooth, dark green leaves, resembling box.			
to 3 ins., once transplanted		\$ 12.00	\$ 96.00
From Japan			
<i>Juniperus chinensis sargentii</i> (Sargent Juniper)			
Bluish-green, low-growing, spreading juniper.			
to 18 ins., twice transplanted, B&B		\$122.00	
From Northern North America			
<i>Juniperus horizontalis glauca</i> (Blue Creeping Juniper)			
Steel-blue cypress-like foliage.			
to 15 ins., twice transplanted, B.R., near specimen		\$ 65.00	
From New England			
<i>Juniperus horizontalis plumosa</i> (Andorra Juniper)			
Deep green, changing to a rich purple bronze.			
to 18 ins., twice transplanted, B&B		\$122.00	
From Eastern North America			
<i>Juniperus virginiana</i> (Red Cedar)			
A compact pyramidal tree of great hardness.			
to 6 ins., not transplanted		\$ 9.00	\$ 72.00
From the American Specie			
<i>Juniperus virginiana tripartita</i> (Fountain Juniper)			
Semi-upright, spreading, dense foliage.			
to 18 ins., twice transplanted, B&B		\$122.00	
From Eastern North America			
<i>Laurel latifolia</i> (Mountain Laurel)			
Compact shrub, bouquets of lovely flowers.			
to 9 ins., once transplanted		\$ 20.00	\$160.00
From the Northwest Coast			
<i>Tea columbianum</i> (Labrador Tea)			
One of Oregon's very fine coastal evergreens.			
to 3 ins., once transplanted		\$ 13.00	\$104.00
From the West Coast			
<i>Juniperus decurrens</i> (Western Incense Cedar)			
A shapely pyramid in form, fan-like foliage.			
to 15 ins., twice transplanted		\$ 30.00	\$240.00
From the Pacific Northwest			
<i>Juniperus aquifolium</i> (Oregon Grape)			
Attractive in foliage, flower and fruit.			
to 6 ins., once transplanted		\$ 11.00	\$ 88.00
to 9 ins., once transplanted		13.00	104.00
From the Pacific Northwest			
<i>Juniperus nervosa</i> (Long-leaved Holly Grape)			
Plants grow 12 to 18 ins. tall, beautifully fern-like in form.			
to 9 ins., once transplanted		\$ 13.00	\$104.00
From the Orient			
<i>Nandina domestica</i> (Nandina)			
Delicate foliage, bright red berries.			
to 12 ins., once transplanted		\$ 15.00	\$120.00
From Japan			
<i>Thymandra terminalis</i> (Japanese Spurge)			
Especially valuable as a ground cover.			
yr. plants		\$ 10.00	\$ 80.00
From Western Mountains			
<i>Juniperus engelmanni</i> (Engelmann Spruce)			
Narrow pyramid, bluish-green to steel-blue foliage.			
to 9 ins., not transplanted		\$ 7.00	\$ 56.00
From Northern Europe			
<i>Juniperus excelsa</i> (Norway Spruce)			
Holds a place of deserved esteem.			
to 15 ins., once transplanted		\$ 15.00	\$120.00

From the European Specie		Per 100	Per 1000
<i>Picea excelsa mucronata</i> (Dwarf Norway Spruce)			
Dwarf, dense, rounded pyramid. One of the best.			
to 6 to 9 ins., twice transplanted, B.R., specimens		\$ 65.00	
From Germany			
<i>Picea excelsa nidiformis</i> (Nest Spruce)			
A flattened globe with compact, dark green foliage.			
*3 to 6 ins., once transplanted		\$ 18.00	\$144.00
From Oregon			
<i>Picea excelsa sherwoodii</i> (Sherwood's Multnomah Spruce)			
Wonderful, dwarf, compact, flattened globe.			
*3 to 6 ins., once transplanted		\$ 18.00	\$144.00
From the Canadian Rockies			
<i>Picea glauca conica</i> (Dwarf Alberta Spruce)			
A neat, trim, close, compact, narrow pyramid.			
to 18 to 24 ins., three times transplanted, B&B		\$182.00	
From South Dakota			
<i>Picea glauca densata</i> (Black Hills Spruce)			
A handsome, hardy tree of symmetrical habit.			
*3 to 6 ins., not transplanted		\$ 5.00	\$ 40.00
From the West Coast			
<i>Pinus jeffreyi</i> (Jeffrey's Pine)			
Picturesque, spire-shaped conifer.			
*6 to 9 ins., once transplanted		\$ 14.00	\$112.00
From High European Mountains			
<i>Pinus mughus compacta</i> (Mugho Pine)			
A dense, stout, dwarf evergreen.			
*6 to 9 ins., once transplanted		\$ 20.00	\$160.00
to 12 to 15 ins., twice transplanted, B&B		122.00	
From the West			
<i>Pseudotsuga douglasii</i> (Douglas Fir)			
Colorado silver-gray strain, a truly stately tree.			
*9 to 12 ins., once transplanted		\$ 15.00	\$120.00
From Europe and Africa			
<i>Taxus baccata</i> (English Yew)			
This is the old favorite of English gardens.			
to 12 to 15 ins., twice transp., B.R., hedge grade		\$ 65.00	

DID YOU KNOW?

That bare fir twigs are smooth and bare spruce twigs are very rough and harsh, an easy identification.

From the Orient			
<i>Taxus cuspidata</i> (Japanese Yew)			
One of the most satisfactory of all dwarf evergreens.			
*6 to 9 ins., twice transplanted		\$ 23.00	\$184.00
From Eastern North America			
<i>Thuja occidentalis</i> (American Arborvitae)			
Compact narrow pyramid, justly esteemed.			
*12 to 15 ins., twice transplanted, field-grown		\$ 25.00	\$200.00
to 2 to 3 ft., twice transplanted, B.R., hedge grade		73.00	
From the North America Specie			
<i>Thuja occidentalis nana</i> (Little Globe Arborvitae)			
Bright green foliage packed in heavy layers.			
to 15 to 18 ins., three times transplanted, B&B		\$122.00	
From the North America Specie			
<i>Thuja occidentalis pyramidalis</i> (American Pyramidal Arborvitae)			
A most desirable column, dense and compact.			
to 4 to 5 ft., twice transplanted, B&B		\$183.00	
From High Western Mountains			
<i>Tsuga mertensiana</i> (Mountain Hemlock)			
Alpine in habit, often verges into a pleasing blue.			
*6 to 9 ins., once transplanted		\$ 18.00	\$144.00
From the West Coast			
<i>Umbellularia californica</i> (Oregon Myrtle)			
One of the stateliest and most beautiful.			
to 24 to 30 ins., twice transplanted		\$142.00	

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Bundle of 15 Musser seedlings, at right, compared with bundle of 15 ordinary seedlings.

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	Per 100	Per 1000		Per 100	Per 1000
● SPECIAL STRAIN SCOTCH PINE					
Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed specimens, with rich color.					
2-yr., S., 4 to 8 ins.	\$ 7.00	\$35.00	● JAPANESE YEW		
● MUGHO PINE			<i>Taxus cuspidata capitata</i>		
4-yr., S., 5 to 10 ins.	10.00	50.00	2-yr., S., 3 to 6 ins.	\$20.00	.....
5-yr., T., 5 to 9 ins.	25.00	.....	3-yr., S., 6 to 12 ins.	40.00	\$250.00
● BLACK HILLS SPRUCE			<i>Taxus cuspidata</i>		
2-yr., S., 3 to 6 ins.	5.00	25.00	1-yr., T., 5 to 6 ins.	20.00	150.00
3-yr., S., 6 to 10 ins.	8.00	40.00	2-yr., T., 8 to 15 ins.	40.00	350.00
5-yr., T., 5 to 16 ins.	30.00	150.00	<i>Taxus hicksi</i>		
● SERBIAN SPRUCE			1-yr., T., 6 to 8 ins.	25.00	175.00
3-yr., S., 4 to 8 ins.	12.00	60.00	2-yr., T., 8 to 12 ins.	40.00	350.00
3-yr., T., 4 to 8 ins.	20.00	.....	<i>Taxus Moon's columnaris</i>		
● NORWAY SPRUCE—Fast-growing.			1-yr., T., 4 to 6 ins.	25.00	.....
Special strain of our own collection.			<i>Taxus brawnii</i>		
2-yr., S., 5 to 10 ins.	7.00	35.00	1-yr., T., 5 to 7 ins.	25.00	175.00
5-yr., T., 8 to 12 ins.	30.00	150.00	2-yr., T., 6 to 10 ins.	40.00	350.00
Excellent understock.			<i>Taxus hunnewelliana</i>		
● WHITE SPRUCE			2-yr., T., 8 to 12 ins.	40.00	.....
3-yr., S., 5 to 10 ins.	13.00	65.00	<i>Taxus hatfieldi and hicksi</i>		
● COLORADO BLUE SPRUCE			TT, 15 to 20 ins.	150.00	.....
3-yr., S., 5 to 10 ins.	11.00	55.00	Field-grown. Sheared.		
4-yr., T., 6 to 10 ins.	30.00	150.00	● JUNIPER HETZI GLAUCOA		
● DOUGLAS FIR			1-yr., T., 6 to 8 ins.	25.00	250.00
3-yr., S., 8 to 12 ins.	10.00	50.00	● GLOBE ARBORVITAE		
● AMERICAN ARBORVITAE			<i>Woodwardi</i>		
3-yr., S., 6 to 14 ins.	8.00	40.00	1-yr., T., 5 to 7 ins.	30.00	250.00
3-yr., S., 10 to 15 ins.	15.00	75.00	<i>Hayey's</i>		
● CANADIAN HEMLOCK			1-yr., T., 5 to 7 ins.	30.00	250.00
2-yr., S., 4 to 8 ins.	10.00	50.00	● PYRAMIDAL ARBORVITAE—Compacta		
3-yr., S., 8 to 14 ins.	20.00	100.00	1-yr., T., 5 to 7 ins.	25.00	200.00
● RED BARBERRY			● JAPANESE HOLLY		
3-yr., S., 6 to 12 ins.	11.00	55.00	<i>Ilex reticulata</i>		
4-yr., S., 12 to 18 ins.	16.00	80.00	1-yr., T., 4 to 6 ins.	25.00	200.00
● JUNIPER VIRGINIANA			<i>Ilex convexa</i>		
2-yr., S., 8 to 16 ins.	10.00	50.00	1-yr., T., 3 to 6 ins.	25.00	200.00
4-yr., T., 8 to 12 ins.	16.00	80.00	● NORWAY MAPLE		
● WHITE DOGWOOD			2-yr., S., 9 to 18 ins.	15.00	75.00
2-yr., S., 16 to 24 ins.	15.00	75.00	● JAPANESE DOGWOOD		

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COMING EVENTS

MEETING CALENDAR

March 8, Pennsylvania Nurserymen's Association, Western Region, spring meeting, Hotel Webster Hall, Pittsburgh, Pa.

March 26 to 28, Southern chapter, National Shade Tree Conference, Hotel Patten, Chattanooga, Tenn.

March 27 to 29, gardeners' and growers' school, sponsored by the extension service, University of New Hampshire, Durham.

April 12 and 13, Holly Society of America, 20th meeting, Brooklyn Botanic Garden, Brooklyn, N. Y.

May 24 to 26, Florida Nurserymen and Growers Association, annual convention, Roosevelt hotel, Jacksonville, Fla.

May 28 to 30, Texas Association of Nurserymen, short course, Texas A. and M. College, College Station, Tex.

June 3 to 5, Georgia State Nurserymen's Association, joint annual convention, Bon Air hotel, Augusta, Ga.

NEW YORK SHOW PLANS

Nurserymen have a lion's share in the revived International flower show to be held March 11 to 17 at the Wanamaker Show Palace, between Broadway and Fourth avenue, Eighth and Ninth streets, New York city. After a year's lapse for lack of adequate quarters, gardens will grow indoors again with a good list of new exhibitors on the roster. New garden exhibitors include the Hicks Nurseries, Westbury, L. I., with a home landscape; Thomas Flower Mart, Syosset, N. Y., a chrysanthemum garden, and Madsen & Christensen, an azalea garden. Returning as exhibitors after a lapse of some years are the Jackson & Perkins Co., Newark, N. Y., with a child's rose garden and another of grander proportions, and Julius Roehrs, Rutherford, N. J., with a tropical garden. These are reinforced by several regulars of distinction, including Daybreak Nurseries, Westport, Conn.; Tow Path Nurseries, West Hartford, Conn.; A. M. Dauernheim, Wantagh, L. I., and others, not to mention private and amateur contributors.

Several novelties in garden classes are to be seen. Two roof-top gardens and a church garden are among these, the latter to demonstrate how to bring churches up to date in the use of outdoor living, which has been capitalized on so generally by everyone else from restaurants to industries. The theme here is a terrace adjoining the church kitchen, on which terrace church suppers could be held or the altar and pulpit for

REYNOLDS LEADS THE MOVE TO ALUMINUM PLANT CONTAINERS

...with a Great New Line!

You know how fast the word has spread about aluminum containers...how they have proved themselves lighter, cleaner, non-breakable, space saving and with far more eye-appeal to customers...how they're better for plants, better for the grower...and better at the retail sales level. It's an improvement you'll want to make in your operation...especially now with one of America's great aluminum producers assuring dependable quality and supply!

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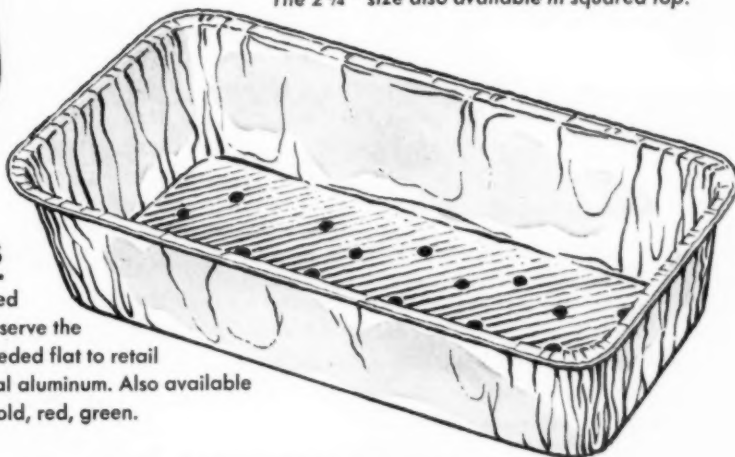
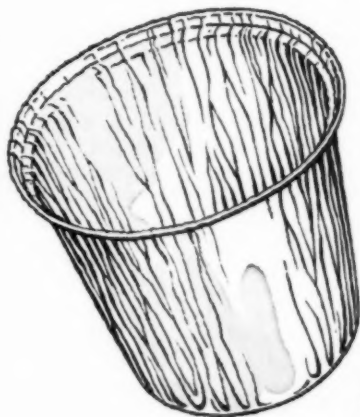
Reynolds Alumi Pots

The pot shape but at a weight saving of nearly 300 lbs. per thousand compared with clay!

Round top in the following sizes (diameter): 2 1/4", 3", 4".

In four standard colors: silver, gold, green, red.

The 2 1/4" size also available in squared top.



Reynolds Alumi Paks

8" x 4" oblong container with rounded corners, to hold a number of plants. Can serve the grower's purpose all the way from seeded flat to retail sale. Stocked standard in natural aluminum. Also available on quantity order in gold, red, green.

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	Per 100	Per 1000
<i>Ilex crenata bullata</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	\$20.00	\$180.00
<i>Ilex crenata bullata</i> , 2-yr., 2 1/4-in. rose pot, 4 to 8 ins.	25.00	240.00
<i>Ilex crenata hetzi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Ilex crenata rotundifolia</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Ilex crenata rotundifolia</i> , 2-yr., 2 1/4-in. rose pot, 4 to 8 ins.	24.00	220.00
<i>Ilex crenata Stokes Pat. 887</i> , 2-yr., 2 1/4-in. rose pot, 2 to 4 ins.	35.00	300.00
<i>Ilex glabra</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Ilex glabra</i> , 2-yr., 2 1/4-in. rose pot, 4 to 8 ins.	24.00	220.00
<i>Juniperus Andorra compacta</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Juniperus chinensis pfitzeriana</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	25.00	225.00
<i>Juniperus chinensis pfitzeriana glauca</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	27.50	250.00
<i>Juniperus glauca hetzi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Juniperus Irish fastigiata</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Taxus cuspidata</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Taxus cuspidata capitata</i> , seedling-grown, 3-yr., 2 1/4-in. rose pot, 3 to 6 ins.	22.50	200.00
<i>Taxus cuspidata Vermeulen</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Taxus intermedia</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Taxus intermedia</i> , 2-yr., 2 1/4-in. rose pot, 5 to 12 ins.	24.00	220.00
<i>Taxus media Adams</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
<i>Taxus media Adams</i> , 2-yr., 2 1/4-in. rose pots, 5 to 12 ins.	24.00	220.00
<i>Taxus media andersoni</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
<i>Taxus media browni</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
<i>Taxus media hatfieldi</i> , No. 18, 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Taxus media hatfieldi</i> , No. 24, 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Taxus media hicksi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Taxus media Moon's</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Taxus media thayerae</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Taxus media wardi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	22.50	200.00
<i>Taxus media wellesleyana</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
<i>Thuja Douglas Golden</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Thuja occidentalis elegantissima</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Thuja occidentalis globe</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Thuja occidentalis pyramidalis</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Thuja occidentalis Siberian</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Thuja occidentalis Wintergreen Hetz</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	25.00	.....
<i>Thuja occidentalis woodwardi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00

<i>Taxus capitata</i> , seedling-grown, 2-yr., 3 to 6 ins.	\$10.00	\$90.00
-----------------------------------------------------------------	---------	---------

The above only a partial list of our potted lining-out stock.

We also grow seedlings and field liners. A complete catalog on request.

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an outdoor church service could be placed. The main church yard on a lower level is used for the congregation, who can sit on folding chairs, and is surrounded by a shrub border.

A heavy attendance is predicted by the show's executive director, R. B. (Dick) Farnham, and the show manager, Alfred Reoch, thanks in part to the fact that the new building has two subway stations actually in the basement and six bus lines passing its doors. The show will occupy three floors with a total area of 186,000 square feet. Exhibits are expected from famous gardens all over the country, including the outstanding gardens in the Mount Vernon area, arranged by Hardinge Scholle, acting superintendent of Woodlawn Plantation. Special arrangements for nurserymen's meetings in the show building are under way.

CALIFORNIA FLOWER SHOW

The seventh annual California International flower show will be held March 17 to 25 at Hollywood park, Inglewood, Calif. The exhibition will occupy more than seven acres of indoor space in the park clubhouse and pavilion. Exhibitors will compete for \$50,000 in cash awards, gold medals and trophies.

More than 30 elaborate gardens featuring flower and plant material from all parts of the world are planned. Tropical gardens will be emphasized, using plant materials from Hawaii, Polynesia and Australia that grow well in southern California. A series of modern gardens designed for the average California home will also be featured, as well as landscaped garden plots, spring flowers in great variety and elaborate scenic exhibits by the retail florists.

The show is an annual nonprofit event sponsored by Southern California Horticultural Institute, Inc., and the Southern California Floral Association. Annual attendance approximates 200,000.

NEW HAMPSHIRE SCHOOL

The horticulture department of the University of New Hampshire, Durham, will sponsor a 3-day program for home gardeners and commercial growers through the extension service of the university March 27 to 29. March 27 will be fruit and vegetable day, featuring topics of interest to commercial fruit and vegetable growers. March 28 will be home horticulture day, for amateurs and garden club members. March



CALIFORNIA GROWN

NONPATENTED HYBRID TEAS

RED SHADES

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Crimson Glory
Christopher Stone
Etoile de Hollande
Grenoble
Night
Poinsettia
Red Radiance
Red Talisman

PINK SHADES

Editor McFarland
Picture
Pink Dawn
Pink Radiance
The Doctor

WHITE SHADES

McGredy's Ivory
Snowbird

YELLOW SHADES

Eclipse
Golden Charm
Golden Dawn
McGredy's Yellow
Soeur Therese
Yellow Sastago

TWO-TONE SHADES

Countess Vandal
Talisman

Prices on above:

	Per 10	Per 100	Per 1000
Nonpatented No. 1	\$6.50	\$60.00	\$550.00
Nonpatented No. 1 1/2	5.25	47.50	425.00

* * * * *

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Euonymus Fortunei Erectus
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Euonymus Patens
Gardenia Fortunei
Ilex Cornuta Burfordi
Ilex Cornuta Femina
Ilex Crenata Convexa
Ilex Crenata Rotundifolia
Ilex Opaca East Palatka
(heavily sheared)
Ilex Vomitoria
(well sheared)
Pride of Houston
Jasminum floridum
Laurel Cherry
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Ligustrum Lucidum
(Black Wax)
Ligustrum Lucidum
(Griffing type)
Ligustrum Lucidum Nanum
Loropetalum Texanum
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Magnolia Grandiflora
Magnolia Soulangeana
Magnolia Soulangeana Nigra
Nandina Domestica
Photinia Serrulata

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Arborvitae, Or. Berckmans
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Arborvitae, Or. Blue Cone
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Arborvitae, Or. Bonita
Arborvitae, Or. Bonita Golden
Arborvitae, Or. Excelsa
Arborvitae, Or. Fruitland
(Green Berckmans)

CONIFERS, cont.

Arborvitae, Or. Newark
Arborvitae, Occ. Globosa
Arborvitae, Occ. Nigra
(Dark Green)
Arborvitae, Occ. Pyramidalis
Cedrus Deodara
Juniper, Andorra
Juniperus Excelsa Stricta
Juniperus Fastigiata
Juniperus Glauca Hetzi
Juniperus Glauca Hetzi
(staked and sheared)
Juniperus Hibernica
(Irish)
Juniperus Pfitzeriana
Juniperus Pfitzeriana Aurea
Juniperus Pfitzeriana Compacta
Juniperus Sabina
Juniperus Sabina Vonehron
Juniperus Sabina Vonehron
(staked and sheared)
Juniperus Scopulorum
Juniperus Sylvestris
(Chinensis Femina)
Juniperus Virginiana Burki
Juniperus Virginiana Canaerti
Juniperus Virginiana Dundee
Juniperus Virginiana Glauca
Pinus Mughus
Pinus Nigra
(Austrian Pine)
Pinus Sylvestris
(Scotch Pine)

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Gardenia Mystery
Ilex Burfordi
Ilex Convexa
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Ilex Rotundifolia
Magnolia Grandiflora
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(light)
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29, material on propagation should be of interest to nurserymen in the area.

ARBORETUM HEADS' MEET

The 1956 annual meeting of the American Association of Botanical Gardens and Arboreta will be held at Los Angeles, Calif., in July, in conjunction with the meeting of the American Association of Nurserymen, according to an announcement by Carl W. Fenninger, secretary-treasurer of the association and president of the board of trustees of the Tyler Arboretum, Philadelphia.

Maunsell Van Rensselaer, director of the Saratoga Horticultural Foundation, was recently elected president of the American Association of Botanical Gardens and Arboreta, succeeding Dr. John C. Wister, director of the Scott Horticultural Foundation, Swarthmore College.

Members of the board of directors are R. C. Allen, Kingwood Center, Mansfield, O.; George H. Spalding, Los Angeles State and County Arboretum, Arcadia, Calif.; L. C. Chadwick, Ohio State University, Columbus, O.; Fred G. Meyer, Missouri Botanical Garden, St. Louis, Mo.; Harry Wood, Swarthmore College, Swarthmore, Pa.; Richard A. Howard, Arnold Arboretum, Wellesley Hills, Mass., and Bernard E. Harkness, division of parks and recreation, Rochester, N. Y.

HOLLY SOCIETY MEET

The 20th meeting of the Holly Society of America will be held at the Brooklyn Botanic Garden, Brooklyn, N. Y., April 12 and 13, according to an announcement by Charles A. Young, Jr., secretary.

FLORIDA DISASTER LOANS

Palm Beach, Broward and Dade counties in Florida were designated disaster areas February 7 by the small business administration, as a result of the freeze suffered from January 6 to 10. Assistance is available to small businessmen in nonagricultural categories, which includes nurserymen and wholesale growers of plants. Disaster loans for businessmen in the three counties who suffered losses due to the freeze may be applied for through local banks to the Miami SBA office, 310 Pacific building, Miami, Fla.

BERNARD ECKERT, Lake View, N. Y., is planning to enter the landscape gardening business next spring.

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OBITUARY

Robert W. Ackerman

Robert W. Ackerman, owner of the Ackerman Nurseries, Bridgman, Mich., died January 29, at Fort Lauderdale, Fla., where he had gone to spend the winter. He was 68 years old. He was a member of the American Association of Nurserymen, the National Mail Order Nurserymen's Association and the Michigan Association of Nurserymen. He is survived by his widow, Catherine Gleason Ackerman; two sons, Robert, Jr., and William Vernon, and three daughters, Mrs. Mayo Roth and Mrs. William McCort, Bridgman, and Mrs. George Ward, Jr., St. Clair Shores, Mich.

James H. Everett

James H. Everett, president of Glen Terrace Nurseries, Inc., Hamden, Conn., died January 28. Mr. Everett founded the nurseries more than 30 years ago. He was a member of the Connecticut Florists' Association and the Connecticut Nurserymen's Association. He is survived by the widow, Gladys; a son, W. James, and two grandchildren.

P. C. Van Dervoort

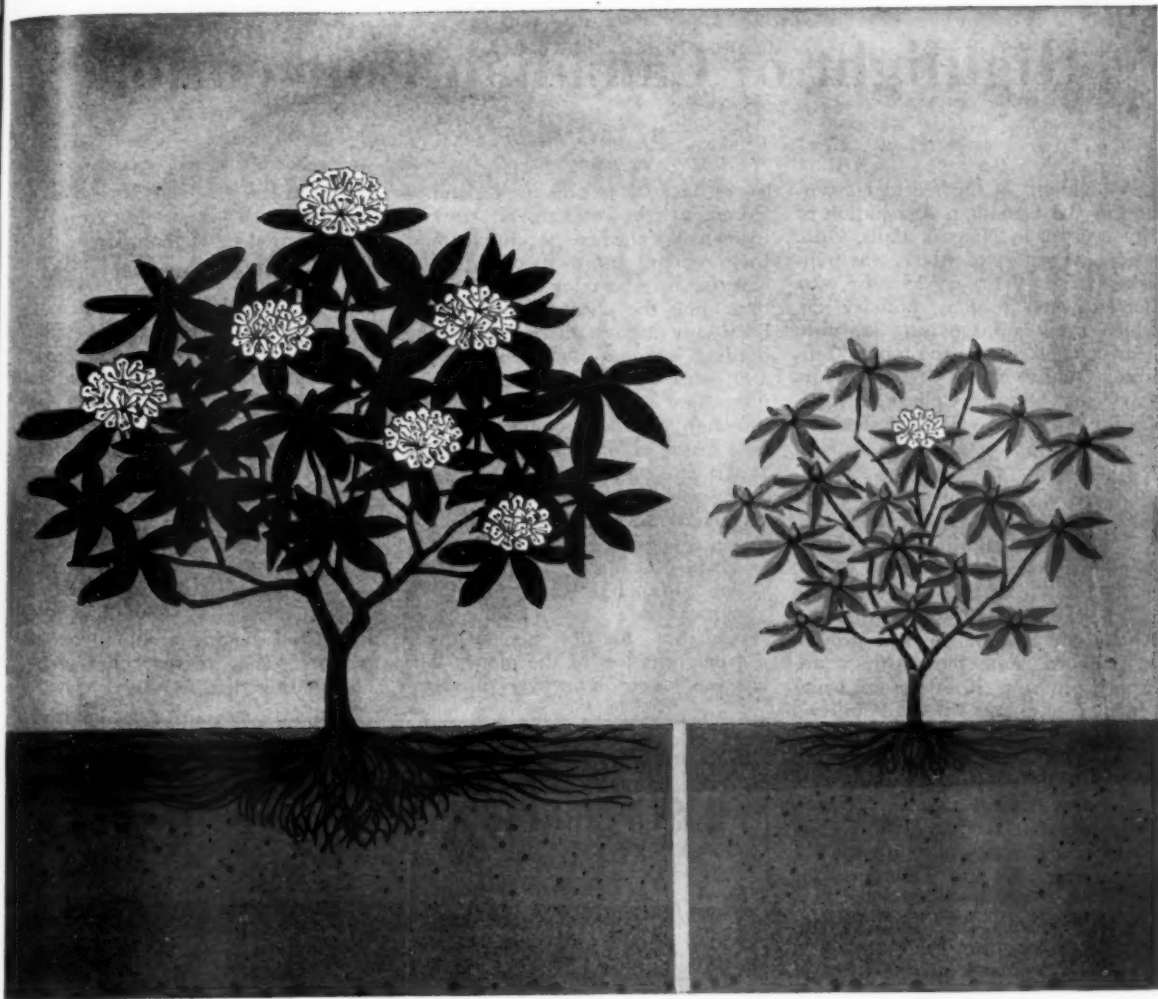
P. C. Van Dervoort, owner of the New Antioch Nurseries, Wilmington, O., died November 12, 1955. He was 89 years old. He had operated the nurseries for 68 years and was a member of the American Association of Nurserymen and the Ohio Nurserymen's Association. He is survived by four nieces and nephews.

MYRA WIGGINS MEMORIAL

As a memorial to his late wife, F. A. Wiggins, Seattle, Wash., has sent cards to friends. Besides carrying a portrait of Mrs. Wiggins and a tribute to her life, by her family, the card reports her death as the result of a cerebral hemorrhage January 14. She was 86 and had been born at Salem, Ore., where she and Mr. Wiggins met. They had been married 61 years.

STARTING in the nursery business is Carlins M. Prohaska, 5085 15-Mile road, Warren, Mich. Mr. Prohaska, who is currently employed in the wholesale rose growing business, has purchased seven acres and will have a retail nursery and do some landscaping.

DOW



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DOW

All-Day Growers' Session

Highlight of Canadian Convention

By L. C. Keith

A highlight of the recent convention of the Canadian Association of Nurserymen at Niagara Falls, Ont., a general report of which was published in the February 15 issue, was the growers' session, January 26, which drew a large attendance to hear a panel discuss the topic, "Finishing Quality Nursery Stock." Murray Peart, Ontario College of Agriculture, Guelph, was chairman.

Frank Fidler, H. C. Downham Nursery Co., Ltd., Strathroy, Ont., discussed growing of golden mock orange. His firm takes softwood cuttings as early as possible in the year. These are made and plunged in the greenhouse from approximately the middle part of May to June 10. About one half of the leaf growth is removed, and the cuttings are dipped in Stim Root before being plunged one and one-half to two inches in sharp sand. They remain in sand for a period of from 17 to 25 days, and during this time are covered with paper that has a 2-inch clearance for air circulation. The paper is kept moist all day with five or six waterings and is removed for the evening about 4 p. m. each day.

At the end of the rooting period, the plants are individually potted in 2½-inch rose pots in a mixture of one part sand, three parts peat moss and four parts soil compost. They remain in the greenhouse for a further period of five to six weeks, until they have become well rooted. Pot-bound by this time, most of these plants are between four to six inches in height, with no less than two or three branches each.

Before the stock is taken outdoors, lining-out beds are made about six feet wide, to which is applied a coating of manure and peat moss, mixed to a depth of six inches with a tiller. The planting area is treated with a solution of aldrin, which rids the bed of cutworms and white grubs.

The plants are brought out from the greenhouse, planted in the beds 8x8 inches apart and covered with 50 per cent shade, carried at a height of four and one-half feet over the plants. Ra-Pid-Gro solution is applied every two or three weeks from the time the cuttings start to root until such time as fertilization should be discontinued.

In the late fall, as soon as the

leaves have fallen and the ground is frozen, a light covering of straw is thrown over the beds as a mulch, and they remain undisturbed until the covering is removed in the spring. At that time the shrubs are trimmed back to a uniform three inches. The shading is again placed over them and, except for intermittent waterings, they receive no further care, although a good growing and digging season is hoped for.

Mr. Fidler stated that a measurement of the stock had shown that the plants develop from 140 to 240 inches of branch growth, with an average of 190 inches, the equivalent of an 8-branch, 24-inch shrub. He also mentioned that in this type of propagation, his firm had averaged a 4-per cent loss of the plants. The loss was taken on an over-all opera-

tion from the time the cuttings were made until they were dug from the bed, a period of 17 months.

Rose Storage

Andrew Lunnemann, nursery superintendent at Brookdale-Kingsway, Ltd., Bowmanville, Ont., outlined his firm's method of natural storage of rosebushes. The bushes are dug when the wood is well matured, usually during the last week in October or the first part of November.

Just before digging time, most of the blooms and seed pods are cut out, as they will give the first trouble in the storage cellar. The climbing roses in the field are headed in about two feet from the ground. This makes the digging, pulling, loading and first piling in the cellar easier. The bushes are loosened with a

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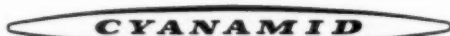
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power digger and left out in the open no longer than is absolutely necessary.

A first piling in the storage cellar gets the bushes ready for the defoliation period. The bushes are piled in single tiers, bare-root, with the roots kept even. To keep the varieties from becoming mixed, iron stakes are driven into the soil between the piles. The firm never piles in closed-in bins, and great care is taken in the piling. The bushes are not tramped down, but pressed down gently to avoid bruising. Even slight damage causes trouble during the storage season.

Generally the bushes come into the storage cellar with green foliage and cannot be stored with the foliage. When the rosebushes are piled, the doors to the rose cellar are closed, and the temperature is lowered and kept at around 40 degrees during the sweating period. The roots are kept moist, not wet, by use of a fog or mist nozzle. Relative humidity must be kept at about 90 to 95 per cent.

It takes two to three weeks to loosen the leaves, and during all that time a careful watch must be kept to observe if the foliage loosens and falls sooner than anticipated. When the leaves shake off freely, the stock is bundled in units of 10 and permanently piled. This job cannot be put off, as this is a critical period. If left too long, the rosebushes may heat, swelling or breaking of the eyes may occur and growth may start.

Leaves Shaken Off

Before bundling, the leaves are shaken off, and any badly bruised wood is cut out. The stub of the old understock that has been left from spring after stubbing is cut off. The bushes are tied in bundles of 10 with a tying machine. They must not be tied too tightly. The tops of the rosebushes need all the air they can get during the storage season. To get rid of any top soft growth, bundles are cut in five to six inches from the terminal tips. For piling bundles for winter storage, open bins are thought best.

Bundles are placed root to root, with the tops out. This time the roots are protected by dampened materials. The material should be well packed around the crowns. Dampened sphagnum moss is considered the best material. At least four feet of clear space is left above the stored pile, at least six inches of space between any pile and any wall and at least two feet and more if possible between the piles.

Uniform condition of temperature and humidity can be obtained only if the air in the storage area moves

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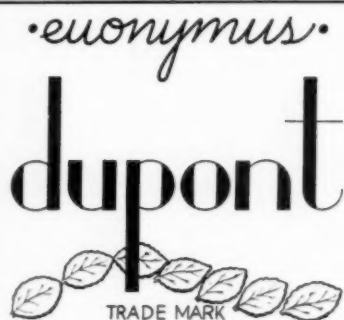
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Euonymus Dupont is a selection of the small-leaved strain of *Euonymus patens* (Kiautschovicus), one of the most useful broad-leaved evergreens ever introduced.

It is characterized by small dark green, clean-cut leaves set closely on the stems. It is extremely bushy for its height. Two-year-old plants often have as many as 30 to 50 canes.

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Euonymus Dupont has many uses:

Hedges, formal and informal. Its fine foliage and dense growth make it a good substitute for boxwood. Excellent for bordering gardens, walks, drives, etc. Can be kept as low as six inches.

Foundation Plantings on the new style low houses made of *Euonymus Dupont* are very effective and inexpensive.

Picture Windows are often so close to the ground there is little room for planting under them. *Euonymus Dupont* will solve this problem with either a formal or informal planting.

Planter Boxes. *Euonymus Dupont* gives a rich effect in planter boxes. Can be used with flowers for color.

Walls. Large expanses of bare walls can be softened by planting *Euonymus Dupont* against them. It will adhere to stone, brick and stucco.

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6 to 10 ins., T., well-br.	3.50	30.00	250.00
3-in. pots	3.50	30.00	250.00
2-in. pots	3.00	25.00	200.00

30 at 100 rate; 300 at 1000 rate.



Block of two-year-old *Euonymus Dupont* showing dense, uniform habit of growth.



Two-year-old plant of *Euonymus Dupont* dug from nursery row. Note the mass of fibrous roots.

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OTTAWA, KAN.

around and mixes freely. This firm uses an electronically-controlled fan to bring about uniform air circulation and temperature. When the bundles are piled, a light covering of sulphur dust is blown over the branches, and no more watering is done.

The temperature is lowered gradually until it reaches 32 to 34 degrees F. This takes a few days, depending on outdoor temperatures. This storage temperature is maintained throughout the winter and early spring. In the later spring the operation is reversed, and the temperature is raised gradually, although the attempt is made to keep the temperature at 40 degrees. Since nursery stock is a living item, even in the storage or dormant season, it will reach the phase or period when it is ready to commence the natural growth cycle. Mr. Lunnemann feels that to stop or prolong this period of complete dormancy for too long is harmful and against nature. Stock is kept in natural storage from five to seven months by this firm.

Broad-leaved Evergreens

D. Hancock, Woodland Nurseries, Cooksville, Ont., talked on broad-leaved evergreens, which he stated are best divided into two categories, the alkaline, or neutral, soil group and the acid soil group. In Ontario, the first group is more general, because of the prevalence of limestone in the populated part of Ontario. The second group contains the flowering forms, such as the rhododendrons.

The broad-leaved evergreens were discussed in some detail. Cultural requirements were said to be much the same for all boxwoods, although hardness might vary. Both *Buxus microphylla koreana* and *Buxus sempervirens welleri* have a natural ability to develop good roots without too many transplanting stages. Too many moves will slow down the development of the plants. It is best to have them in a soil with a greater reserve of fertility. A medium clay or sandy clay loam, with good drainage and plenty of humus in the soil, was suggested. Good drainage is required for all broad-leaved evergreens, to insure a high relationship of air to moisture in the soil.

When a boxwood is developed with a dense top and a large fibrous root, it is desired to have it grow uniformly and without injury. It is important to allow a fair spacing width for cultivation. A system of 24 to 30-inch rows, center to center, and spacing in the row 12 inches apart or better will insure 18,000 or 20,000



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2 to 3 ft.....	55.00
3 to 4 ft.....	65.00

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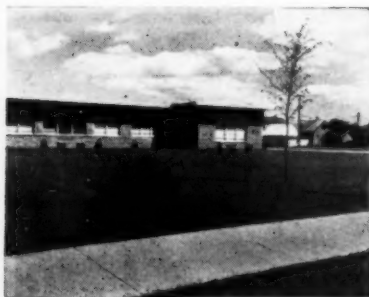
How to prepare and seed a lawn without hand labor



Here is the way the proposed 2-acre lawn looked after rough grading in the fall of 1953. Obviously there was a lot of work still to be done. Thanks to the Brillion Sure-Stand Landscape Seeder, however, it was all accomplished without any hand work — a saving in hand labor of \$210.00.



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Here is the finished result, the following spring — a thick, heavy, vigorous lawn. Of this job the Luckow Landscape Service, Manitowoc, Wisconsin writes: "With hand labor it would have taken five men, three days at \$1.75 an hour to seed the 2-acre plot. We seeded it with one man in less than three hours with a Brillion".

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See for yourself what this seeder can save. Write today. Available with 3-point hitch or standard drawbar model.

plants per acre. As the boxwoods become larger, careful cultivation is required, as they are slow to produce and do not recover from injury quickly. Material clipped from the tops to make the plants bushier can be used for additional propagation.

Shading is essential when the soil is too light and the land slopes to the south. Conversely, it can be omitted where the opposite conditions prevail. To shade large tracts economically, saran cloth stretched over a wire frame was suggested.

Buxus sempervirens welleri was said to require more shading than *Buxus microphylla koreana*, for although the former can stand low winter temperatures, it will winter-kill more readily by sunscald. *Buxus sempervirens* Hamilton, with its larger, dark green leaf, was said to be as hardy as the *welleri* variety, when planted with some winter protection.

Daphne cneorum requires a well-drained soil, as well as plenty of moisture in the soil, and lime. The plants are brittle and easily damaged.

Euonymus Culture

Euonymus fortunei varieties are useful, easy-to-handle plants. Their branches are easily broken if cold or wet, but they grow quickly and can be trained easily by pruning. They make a good low evergreen hedging material.

The most important factor to consider in developing good euonymus is to develop a great number of branches and buds in a short time. The simplest method is to bed them out in high density—up to 10 per square foot in a well-fed soil—and then hold them short by pruning the large branches. The branches from each year's crop can be used to make summer cuttings.

The euonymus should remain only one year in the densely planted bed and then be lined out in field rows not closer than 12 inches apart nor in rows closer than 26 to 30 inches. In this transplanting they should be kept clipped short for one whole season, during which time the plant develops multiple heads, with fat stems and many buds. This period may be lengthened, depending on the expected time of maturity of the crop, but an economical result must be obtained. While euonymus is tolerant to adverse conditions, such as drought, lack of fertility, carelessness, etc., it will make much thriftier advances if care is taken. Shading is required only in the young stages or in extremely light soil.

The euonymus has many uses. It will climb a wall, form a ground

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DECIDUOUS FOREST SEEDLINGS AND SHRUBS

DECIDUOUS SEEDLINGS

	Per 100	Per 1000
ASH, GREEN		
3 to 4 ft.	\$ 5.00	\$ 50.00
2 to 3 ft.	4.00	35.00
6 to 12 ins.	1.20	10.00
BOX ELDER		
3 to 4 ft.	5.00	50.00
2 to 3 ft.	4.00	35.00
18 to 24 ins.	2.90	25.00
12 to 18 ins.	2.10	18.00
6 to 12 ins.	1.20	10.00
BUFFALO BERRY		
18 to 24 ins.	0.50	60.00
6 to 9 ins.	3.00	25.00
CARAGANA ARBORESCENS		
3 to 4 ft.	9.00	80.00
2 to 3 ft.	6.00	55.00
6 to 12 ins.	2.10	18.00
CHERRY, WILD BLACK		
2 to 3 ft.	5.50	50.00
18 to 24 ins.	4.00	35.00
12 to 18 ins.	3.00	25.00
CHOKECHERRY		
4 to 6 ins.	2.00	15.00
CORNUS RACEMOSA		
2 to 3 ft.	7.50	
6 to 12 ins.	3.00	25.00
CORNUS STOLONIFERA		
18 to 24 ins.	6.00	55.00
12 to 18 ins.	5.00	45.00
6 to 12 ins.	3.00	25.00
ELM, AMERICAN		
2 to 3 ft.	4.00	35.00
18 to 24 ins.	2.90	25.00
12 to 18 ins.	2.10	18.00
6 to 12 ins.	1.20	10.00
ELM, CHINESE		
4 to 5 ft.	12.00	100.00
3 to 4 ft.	7.50	65.00
2 to 3 ft.	4.50	40.00
18 to 24 ins.	2.90	25.00
12 to 18 ins.	2.10	18.00
HACKBERRY		
2 to 3 ft.	7.00	65.00
18 to 24 ins.	5.00	45.00
12 to 18 ins.	3.50	30.00
6 to 12 ins.	2.50	20.00

HONEYSUCKLE

	Per 100	Per 1000
6 to 12 ins.	\$ 5.00	\$ 50.00
4 to 6 ins.	2.00	15.00
LILAC, COMMON		
2 to 3 ft.	10.00	90.00
18 to 24 ins.	8.00	75.00
12 to 18 ins.	5.50	50.00
6 to 12 ins.	4.50	40.00
LOCUST, BLACK		
3 to 4 ft.	5.50	50.00
2 to 3 ft.	4.00	35.00
18 to 24 ins.	2.90	25.00
12 to 18 ins.	2.10	18.00
6 to 12 ins.	1.20	10.00
LOCUST, THORNLESS HONEY		
3 to 4 ft.	8.50	75.00
2 to 3 ft.	5.00	45.00
18 to 24 ins.	3.50	30.00
12 to 18 ins.	2.40	20.00
6 to 12 ins.	1.70	14.00
MULBERRY, RUSSIAN		
3 to 4 ft.	5.50	50.00
2 to 3 ft.	4.00	35.00
18 to 24 ins.	3.00	25.00
12 to 18 ins.	2.10	18.00
6 to 12 ins.	1.20	10.00
OAK, BUR		
18 to 24 ins.	12.00	100.00
12 to 18 ins.	8.00	75.00
9 to 12 ins.	6.00	55.00
6 to 9 ins.	5.00	45.00
OAK, RED		
18 to 24 ins.	14.00	120.00
12 to 18 ins.	8.50	80.00
9 to 12 ins.	7.00	65.00
6 to 9 ins.	5.00	45.00
OLIVE, RUSSIAN		
3 to 4 ft.	10.00	90.00
2 to 3 ft.	7.50	65.00
6 to 12 ins.	2.40	20.00
PRUNUS BESSEYI (Western Sand Cherry)		
18 to 24 ins.	6.00	55.00
4 to 6 ins.	2.00	15.00
PRUNUS AMERICANA (Native Plum)		
No. 3, about 2 1/16-in. cal.	2.10	18.00
4 to 6 ins.	1.25	9.00
RIBES ODORATUM		
18 to 24 ins.	7.00	65.00
12 to 18 ins.	5.00	45.00
6 to 12 ins.	3.50	30.00

REDBUD

	Per 100	Per 1000
6 to 12 ins.	\$ 4.50	\$ 40.00
4 to 6 ins.	2.00	15.00
ROSA MULTIFLORA		
6 to 10 ins.	1.20	10.00
WALNUT, BLACK		
3 to 4 ft.	10.00	90.00
2 to 3 ft.	7.00	60.00
18 to 24 ins.	4.50	40.00
12 to 18 ins.	3.50	30.00
6 to 12 ins.	2.50	20.00

SHRUBS

	Per 10	Per 100	Per 1000
BARBERRY, THUNBERGII			
18 to 24 ins.	\$3.50	\$33.00	\$300.00
15 to 18 ins.	3.10	27.00	240.00
12 to 15 ins.	2.40	21.00	180.00
COLUTEA ARBORESCENS (Bladder Senna)			
3 to 4 ft.	6.50	60.00	
2 to 3 ft.	5.50	50.00	
18 to 24 ins.	4.00	35.00	
12 to 18 ins.	2.50	22.00	
CORNUS ALBA SIBIRICA			
4 to 5 ft.	8.00	75.00	
3 to 4 ft.	6.50	60.00	
18 to 24 ins.	4.00	35.00	
12 to 18 ins.	2.40	21.00	
CORNUS GOLDEN TWIG			
18 to 24 ins.	4.00	35.00	
12 to 18 ins.	2.40	21.00	
CYDONIA JAPONICA			
2 to 3 ft.	5.00	45.00	400.00
18 to 24 ins.	3.50	33.00	300.00
12 to 18 ins.	2.90	25.00	
LILAC, JAPONICA			
3 to 4 ft.	8.00		
2 to 3 ft.	6.50	60.00	
18 to 24 ins.	4.50		
12 to 18 ins.	3.00		
LILAC, COMMON PURPLE			
3 to 4 ft.	6.50	60.00	
2 to 3 ft.	5.00	45.00	400.00
18 to 24 ins.	4.00	35.00	
LILAC, PERSIAN RED			
18 to 24 ins.	4.50	40.00	350.00

LILAC, FRENCH—named varieties

	Per 10	Per 100
3 to 4 ft.	\$11.00	
2 to 3 ft.	8.50	\$80.00
18 to 24 ins.	6.50	60.00
12 to 18 ins.	4.50	40.00

s—single d—double

x—grades available

	3 to 4 ft.	2 to 3 ft.	18 to 24 ins.	12 to 18 ins.
Alphonse Lavallee, d. lilac	X	X	X	X
Belle de Nancy, d. rose, wh. ctr.	X	X	X	X
Charles Joly, d. purple	X	X	X	X
Charles X, s. red	X	X	X	X
Decadence, azure-blue	X	X	X	X
General Sheridan, d. white	X	X	X	X
Jacques Callot, s. violet	X	X	X	X
Michel Buchner, s. lilac	X	X	X	X
Mme. Abel Chateau, d. white	X	X	X	X
President Grevy, d. bluish-lilac	X	X	X	X
Pres. Lincoln, s. Wedgwood-blue	X	X	X	X
Vauban, d. lilac	X	X	X	X
Wm. Robinson, d. reddish-purple	X	X	X	X

	Per 10	Per 100	Per 1000
PHILADELPHUS GLACIER			
2 to 3 ft.	\$5.50	\$50.00	
18 to 24 ins.	4.50	40.00	
12 to 18 ins.	3.20	28.00	
PHYSCARPUS OPULUS (Common Ninebark)			
3 to 4 ft.	6.00	55.00	\$500.00
2 to 3 ft.	5.00	45.00	400.00
18 to 24 ins.	4.00	35.00	300.00
PRIVET, AMUR RIVER			
2 to 3 ft., 4 canes	21.00	180.00	
18 to 24 ins., 3 canes	16.50	140.00	
12 to 18 ins., 3 canes	12.00	100.00	
SPIRAEA BILLIARDI			
3 to 4 ft.	6.00	55.00	
2 to 3 ft.	5.00	45.00	400.00
18 to 24 ins.	4.00	35.00	300.00
12 to 18 ins.	2.90	25.00	220.00
SPIRAEA FROEBELI			
18 to 24 ins.	4.00	35.00	300.00
15 to 18 ins.	3.50	30.00	270.00
12 to 15 ins.	3.00	27.00	250.00

	Per 10	Per 100	Per 1000
SPIRAEA MULTIFLORA			
3 to 4 ft.	\$6.00	\$55.00	
2 to 3 ft.	5.00	45.00	\$400.00
18 to 24 ins.	4.00	35.00	300.00
SPIRAEA VANHOUTTEI			
2 to 3 ft.	4.00	35.00	300.00
18 to 24 ins.	3.20	28.00	240.00
12 to 18 ins.	2.40	21.00	180.00
TAMARIX HISPIDA			
4 to 5 ft.	7.00	65.00	600.00
3 to 4 ft.	5.50	50.00	450.00
2 to 3 ft.	5.00	45.00	400.00
18 to 24 ins.	4.00	35.00	300.00
12 to 18 ins.	2.90	25.00	
VIBURNUM AMERICANA			
12 to 18 ins.	4.00	35.00	
6 to 12 ins.	2.10	18.00	
VIBURNUM DENTATUM			
2 to 3 ft.	5.50	50.00	
18 to 24 ins.	4.50	40.00	
12 to 18 ins.	3.50	30.00	
VIBURNUM SIEBOLDI			
18 to 24 ins.	4.50		
12 to 18 ins.	3.50	30.00	
6 to 12 ins.	2.10	18.00	

	Per 10	Per 100	Per 1000
VIBURNUM LENTAGO			
2 to 3 ft.	\$5.50	\$50.00	\$450.00
18 to 24 ins.	4.50	40.00	
12 to 18 ins.	3.20	28.00	
VIBURNUM OPULUS			
2 to 3 ft.	6.50	60.00	
VINES			
AMPELOPSIS QUINQUEFOLIA			
2-yr., No. 1	\$3.50	\$30.00	\$270.00
2-yr., Medium	2.90	25.00	
AMPELOPSIS VEITCHII			
2-yr., No. 1	3.00	25.00	
2-yr., Medium	2.10	15.00	
Planters, No. 3	8.00		

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cover or make a shrub or hedge. A certain amount of selection will insure a more uniform crop. The shrubby group is in most demand.

Ilex crenata convexa and *ilex crenata rotundifolia* were suggested as the best hollies to cultivate, because there is a fair market for them. *Ilex* was said to do best with shade and plenty of humus in the soil.

Harry Rogers suggested six important steps in producing good-quality tree fruits: (1) Giving good soil preparation, with proper organic matter and drainage; (2) assuring healthy condition of seedlings by correctly timing selection of budwood; (3) cultivating constantly and eliminating weeds, to develop good upright, straight stems; (4) stubbing and pruning; (5) following a spray program according to formulae, and (6) digging, grading and storing at proper times.

C. De Groot discussed some nursery practices. He mentioned the lack of uniformity of shade trees in cities and towns and suggested grafting rather than growing from seeds to produce more uniformity. The American elm has proved satisfactory to propagate for uniform trees. For good and quick results, it is best to graft on a fairly heavy understock, usually a 3-year-old tree with a caliper of up to one and one-half inches. It is best to use a triangular graft about the end of March or early April in the Toronto locality, so that the trees do not stand too long before the sap runs, provided the weather is dry. A sharp knife is beneficial, and a clean cut is absolutely necessary for a quick union of the cambium.

The scion should consist of three eyes and should be cut so that the lower eye is in the middle of the round outside of the triangle, for there is a chance the eye will sprout, in case the upper part is damaged or broken off. The scions are placed on the west side, as a protection against windstorms. As an extra precaution it is wise to stake and tie the grafts for the first year. They will grow about eight feet or more, a good foundation for a straight stem. It is necessary to wax these grafts, and in cold weather, Braco is most satisfactory, provided a good thick coat is applied over the entire wood. If rain should occur the first day, the material will wash off and should be applied again. A careful watch should be made to see no small holes or blisters form; if any do, they should be covered with additional Braco.

It is not advisable to prune the

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SHRUBS

- 3000 Barberry, thunbergi, 15 to 18 ins.
 1200 Barberry, thunbergi, 18 to 24 ins.
 300 Bush Honeysuckle (Tatarica rubra), 2 to 3 ft.
 200 3 to 4 ft.
 300 4 to 5 ft.
 1000 Bush Honeysuckle, morrowi, 2 to 3 ft.
 800 3 to 4 ft.
 800 4 to 5 ft.
 200 Buddleia—Charming No. 1
 200 Buddleia—White No. 1
 800 Callicarpa purpurea, 3 to 4 ft.
 200 Coralberry, chenaulti, 3 to 4 ft.
 2000 Deutzia crenata, 2 to 3 ft.
 800 3 to 4 ft.
 500 4 to 5 ft.
 400 Deutzia gracilis, 12 to 15 ins.
 2000 Deutzia Pride of Rochester, 3 to 4 ft.
 1000 4 to 6 ft.
 400 6 to 8 ft.
 200 Dogwood, golden stem, 5 to 6 ft.
 400 Dogwood, red stem, 4 to 5 ft.
 1000 Dogwood, red stem, 5 to 6 ft.
 500 Forsythia spectabilis, 3 to 4 ft.
 600 Forsythia viridissima, 3 to 4 ft.
 400 4 to 5 ft.
 500 5 to 6 ft.
 2000 Forsythia Lynwood Gold, 18 to 24 ins.
 1500 Forsythia Lynwood Gold, 2 to 3 ft.
 1000 Forsythia Spring Glory, 3 to 4 ft.
 2000 Forsythia Spring Glory, 4 to 5 ft.
 2500 Forsythia suspensa, 5 to 4 ft.
 2000 Forsythia suspensa, 4 to 5 ft.
 4000 Hydrangea, blue, 2-yr.
 500 Hydrangea Nikko Blue, 2-yr.
 800 Hydrangea P. G., 2 to 3 ft.
 800 Hydrangea P. G., 3 to 4 ft.
 500 Philadelphus coronarius, 3 to 4 ft.
 1000 Philadelphus coronarius, 4 to 5 ft.
 1000 Pussy Willow, 2 to 3 ft.
 500 Pussy Willow, 3 to 4 ft.
 200 Pussy Willow, French, 4 to 5 ft.
 900 Regel Privet, 5 to 3 ft.
 200 Rosemary Willow, 4 to 5 ft.
 200 Rosemary Willow, 6 to 8 ft.
 900 Snowberry, 2 to 3 ft.
 600 Snowberry, 3 to 4 ft.
 400 Spiraea Reeves, 3 to 4 ft.
 500 Spiraea vanhouttei, 3 to 4 ft.
 300 Tamarix africana, 5 to 6 ft.

HEDGE

- 20,000 Ligustrum sinensis, 1-yr., 12 to 18 ins.
 5000 2-yr., 18 to 24 ins.
 5000 2-yr., 2 to 3 ft.
 3000 Ligustrum ovalifolium, 2-yr., 3 to 4 ft.

FLOWERING TREES

- 200 Amelanchier canadensis, 4 to 5 ft.
 150 Ash, European Mountain, 5 to 6 ft.
 100 Ash, European Mountain, 6 to 8 ft.
 1000 Dogwood, pink, 18 to 24 ins., NB.
 500 2 to 3 ft., B&B.
 500 3 to 4 ft., B&B.
 1000 4 to 5 ft., B&B.
 300 Dogwood, white, 3 to 4 ft., B&B.
 200 Dogwood, white, 4 to 5 ft., B&B.
 200 Flowering Peach, pink, 5 to 6 ft.
 100 Linden, American, 2 to 3-in. cal.
 250 Redbud (Cercis canadensis), 4 to 5 ft.
 100 Tulip Tree, 2½ to 3-in. cal.

SHADE TREES

- 75 Ash, American White, 2 to 2½-in. cal.
 100 2½ to 3-in. cal.
 40 3 to 4-in. cal.
 100 Beech, American, 2½ to 3-in. cal.
 100 Birch, Cut-leaved Weeping, 4 to 5 ft.
 100 Birch, Cut-leaved Weeping, 5 to 6 ft.
 300 Birch, European White, 6 to 8 ft.
 50 Birch, European White, 2 to 2½-in. cal.
 100 Catalpa bungei, 6 to 8 ft.
 50 Catalpa bungei, 2 to 3-in. cal.
 100 Catalpa speciosa, 6 to 8 ft.
 100 Elm, American, 2 to 3-in. cal.
 75 Elm, American, 3 to 4-in. cal.
 2000 Elm, Chinese, 6 to 8 ft.
 1000 8 to 10 ft.
 300 2 to 2½-in. cal.
 100 2½ to 3-in. cal.
 100 3 to 4-in. cal.
 100 4 to 5-in. cal.
 25 Gum, Sour, 2½ to 3-in. cal.
 25 Gum, Sour, 3 to 4-in. cal.
 2000 Maple, Norway, 6 to 8 ft.
 300 8 to 10 ft.
 25 2 to 2½-in. cal.
 25 4 to 5-in. cal.
 3000 Maple, Silver, 6 to 8 ft.
 3000 8 to 10 ft.
 1000 1½ to 2-in. cal.
 500 2 to 2½-in. cal.
 25 2½ to 3-in. cal.
 50 3 to 4-in. cal.
 200 4 to 5-in. cal.
 10 6 to 7-in. cal.

SHADE TREES—Continued

- 200 Maple, Schwedler, 8 to 10 ft.
 25 Maple, Schwedler, 10 to 12 ft.
 75 Oak, Chestnut, 2½ to 3-in. cal.
 25 3 to 4-in. cal.
 35 4 to 5-in. cal.
 20 6 to 7-in. cal.
 150 Oak, Pin, 2½ to 3-in. cal.
 30 3 to 3½-in. cal.
 25 4 to 5-in. cal.
 25 6 to 7-in. cal.
 65 Oak, Red, 2½ to 3-in. cal.
 65 Oak, Red, 4 to 5-in. cal.
 75 Oak, Scarlet, 2½ to 3-in. cal.
 25 3 to 3½-in. cal.
 60 4 to 5-in. cal.
 40 6 to 7-in. cal.
 50 Oak, White, 3 to 4-in. cal.
 25 4 to 5-in. cal.
 25 5 to 6-in. cal.
 25 Plane, Oriental, 2½ to 3-in. cal.
 25 Plane, Oriental, 4 to 5-in. cal.
 1000 Poplar, Lombardy, 6 to 8 ft.
 500 Poplar, Lombardy, 8 to 10 ft.
 500 Salix babylonica, 6 to 8 ft.
 400 Salix babylonica, 8 to 10 ft.
 300 Salix Niobe, 6 to 8 ft.
 500 8 to 10 ft.
 200 10 to 12 ft.

EVERGREENS, CONIFEROUS

- 200 Arborvitae, American, 2 to 3 ft.
 200 Arborvitae, American Pyramidal, 2 to 3 ft.
 100 Fir, Balsam, 2 to 2½ ft.
 100 2½ to 3 ft.
 100 3 to 4 ft.
 50 4 to 5 ft.
 50 5 to 6 ft.
 50 6 to 7 ft.
 100 Fir, Douglas, 3 to 4 ft.
 30 4 to 5 ft.
 20 3 to 4 ft.
 500 Juniper, Andorra, 2 to 2½ ft.
 200 Juniper, Andorra, 5 to 6 ft.
 200 Juniper, Hetz Silver, 2½ to 3 ft.
 600 Juniper, Pfitzer, 15 to 18 ins.
 1000 1½ to 2 ft.
 1500 2 to 2½ ft.
 20 4 to 5 ft.
 100 Pine, white, 2 to 3 ft.
 100 3 to 4 ft.
 150 4 to 5 ft.
 200 5 to 6 ft.
 100 6 to 7 ft.
 50 Pine Scotch, 2 to 3 ft.
 100 3 to 4 ft.
 100 4 to 5 ft.
 175 5 to 6 ft.
 100 6 to 7 ft.
 1500 Spruce, Black Hills, 15 to 18 ins.
 1500 Spruce, Black Hills, 1½ to 2 ft.
 1000 Spruce, Norway, 1½ to 2 ft.
 300 2 to 3 ft.
 200 3 to 4 ft.
 600 Spruce, White, 2 to 3 ft.
 200 Yew, Hatfield, 1½ to 2 ft.
 200 2 to 2½ ft.
 30 2½ to 3 ft.
 25 3 to 3½ ft.
 500 Yew, Hicks, 15 to 18 ins.
 500 1½ to 2 ft.
 500 2 to 2½ ft.
 500 Yew, Spreading (Taxus cuspidata), 1½ to 2 ft.
 300 Yew, Spreading (Taxus cuspidata), 2 to 2½ ft.

EVERGREENS, BROAD-LEAVED

- 25,000 Azaleas, assorted varieties and sizes
 300 Barberry, Jullanna, 15 to 18 ins.
 300 1½ to 2 ft.
 500 2 to 3 ft.
 1000 Erica gracilis, 2-yr.
 500 Euonymus patens, 2 to 3 ft.
 100 Hex crenata, 2 to 3 ft.
 500 Ligustrum lucidum, 1½ to 2 ft.
 100 Magnolia grandiflora, 3 to 4 ft.

NUT TREES

- 20,000 Chinese Chestnut, 15 ins. to 7 ft.

FRUITS

PEACH

Large assortment varieties and sizes. Ask for quotations.

THORNLESS BOYSENBERRY

\$5.00 per 100; \$45.00 per 1000

CUMBERLAND RASPBERRIES

\$5.00 per 100; \$45.00 per 1000

APPLE SEEDLINGS

No. 1, straight, \$6.00 per 100, \$50.00 per 1000
 No. 2, straight, \$5.00 per 100, \$45.00 per 1000

TRUCK DELIVERY SERVICE at nominal cost available to points within 600 miles.

Ask for copy of our Wholesale Price List.

WAYNESBORO NURSERIES,

WAYNESBORO, VIRGINIA

Phone: Waynesboro 2-8267

Well-Established Cuttings from 2¼-in. Pots

	Per 10	Per 100
<i>Berberis julianae</i>	\$3.00	\$25.00
<i>Chamaecyparis filifera aurea</i>	2.25	17.50
<i>Eucynthus carrierei</i>	2.25	17.50
<i>Eucynthus vegetus</i>	2.25	17.50
<i>Ilex crenata convexa</i>	2.25	17.50
<i>Ilex crenata helleri</i>	2.25	17.50
<i>Ilex crenata microphylla</i>	2.25	17.50
<i>Ilex crenata rotundifolia</i>	2.25	17.50
<i>Ilex glabra</i>	2.25	17.50
<i>Ilex opaca</i> , 4 to 6 ins. in the following named varieties	4.50	40.00

Arden	Joyce
Cheerful	Lake City
Compacta	Mao
Delia Bradley	
Farago	Uncle Tom

<i>Juniperus pfitzeriana</i>	2.75	22.50
<i>Juniperus pfitzeriana nana</i>	2.75	22.50
<i>Mahonia bealei</i>	2.50	20.00
<i>Prunus laurocerasus schipkaensis</i>	4.50	40.00
<i>Taxus baccata repandens</i>	2.25	17.50
<i>Taxus canadensis</i>	2.25	17.50
<i>Taxus cuspidata aurea</i>	2.75	22.50

	Per 10	Per 100
<i>Taxus cuspidata F&F compacta</i>	\$2.25	\$17.50
<i>Taxus media browni</i>	2.25	17.50
<i>Taxus media henryi</i>	2.25	17.50
<i>Taxus media Moon's columnaris</i>	2.25	17.50
<i>Taxus media Vermeulen</i>	2.25	17.50
<i>Taxus media wardi</i>	2.25	17.50
<i>Thuja occidentalis globosa, Howe type</i>	2.25	17.50
<i>Thuja occidentalis nigra</i>	2.25	17.50

1-Yr. Grafts from 2¼-in. Pots, Except as Noted

<i>Syringa</i> (French Hybrid Lilac), 1-yr., field, 18 to 24 ins.	Per 10	Per 100
Our selection of varieties.	\$3.00	\$25.00
<i>Thuja orientalis elegantissima</i>	6.00	50.00

Bedded Stock 2-Yr. Transplants

	Per 10	Per 100
<i>Ilex convexa</i>	\$4.00	\$35.00
<i>Taxus cliftoni</i>	4.50	40.00

Grafted Stock for Spring, 1956, Delivery

Grafts are normally ready for shipment after April 15. Since there is a possibility of damage by late spring frost, kindly give a shipping date when you feel it is safe to plant without frost injury.

	Per 10	Per 100
<i>Acer palmatum atropurpureum</i>	\$7.50	\$65.00
<i>Acer palmatum dissectum atropurpureum</i>	7.50	65.00
<i>Cornus florida alba plena</i>	6.00	50.00
<i>Cornus florida rubra</i>	6.00	50.00
<i>Cornus florida rubra Proser</i>	7.50	65.00
<i>Fagus sylvatica riversi</i>	6.00	50.00
<i>Hamamelis mollis</i>	6.00	50.00
<i>Hamamelis vernalis</i>	6.00	50.00
<i>Magnolia rustica rubra</i>	7.00	60.00
<i>Magnolia soulangiana</i>	7.00	60.00
<i>Magnolia soulangiana nigra</i>	7.00	60.00

	Per 10	Per 100
<i>Magnolia stellata rubra</i>	\$7.50	\$65.00
<i>Parrotia persica</i>	6.50	60.00
* <i>Pinus cembra</i>	6.50	55.00
<i>Thuja orientalis aurea nana</i>	5.00	40.00
<i>Thuja orientalis conspicua</i>	5.00	40.00
<i>Thuja orientalis elegantissima</i>	5.00	40.00
<i>Ilex opaca mascula</i>	7.00	60.00
<i>Ilex opaca femina</i>	7.00	60.00

(Our selection of the following named varieties:)

Arden	Hookstram (Old Manig)
Cheerful	Heavy Berry)
Christmas Tide	Joyce
Delia Bradley	Lake City
Farago	Mao
	Richards

(Write for quotations on varieties of your selection)

*Five-needle pines cannot be shipped in the following states: Arizona, California, Colorado, Georgia, Kentucky, New Mexico, Nevada, South Carolina and Tennessee. Due to handling costs, orders for less than \$5.00 cannot be accepted.

TERMS: Prices in this list are net cash F.O.B. Mountain View, N. J., but the usual terms will be extended to those of established credit. No goods sent C.O.D. unless 25% of amount is sent with order. Five of one kind will be billed at the 10 rate; 25 at the 100 rate; 250 at the 1000 rate. From those not acquainted with our stock, a trial order will be appreciated. Packing extra at cost.

HESS' NURSERIES

MOUNTAIN VIEW, N. J.

HOUTZDALE TREE NURSERY

936 Elizabeth St.
PITTSBURGH 21, PA.

	Per 100	Per 1000
SCOTCH PINE		
2-yr., 2 to 4 ins.	\$2.00	\$10.00
2-yr., 3 to 5 ins.	3.00	18.00
3-yr., 5 to 8 ins.	4.00	25.00
3-yr., 6 to 10 ins.	4.50	30.00
AUSTRIAN PINE		
3-yr., 5 to 8 ins.	4.00	22.00
3-yr., 6 to 10 ins.	4.50	30.00
MUGHO PINE		
3-yr., 3 to 5 ins.	4.00	22.00
3-yr., 4 to 6 ins.	6.00	35.00
4-yr., 5 to 7 ins.	7.00	35.00
BLUE SPRUCE		
2-yr., 1½ to 3 ins.	3.00	15.00
2-yr., 2 to 4 ins.	4.00	22.00
3-yr., 2 to 5 ins.	4.50	25.00
3-yr., 2 to 6 ins.	5.00	30.00

FRENCH PUSSY WILLOW

(*Salix Discolor* Selection)

Beautiful February-flowering strain. Catkin sheath is a rich mahogany-red with attractive large silvery-pink catkins when mature.

	Per 100	Per 1000
15 to 18 ins.	\$25.00	\$200.00
18 to 24 ins.	30.00	250.00
24 to 36 ins.	35.00	300.00
Cutback liners	12.00	100.00

BEARDSLEE NURSERY PERRY, O.

WANTED

To grow your lining-out and mail-order evergreens on contract.
If interested, write:

The STEDMAN NURSERIES
NEWFANE, N. Y.

trees the first year, because they are the best source for the next year's scions. The second year 60 per cent will be 8 to 10 feet and 20 per cent, 10 to 12 feet salable size. The smaller ones should be transplanted.

In comparing the cost of a block of grafted elms with the cost of a block of seedlings, one should remember that the grafts do not occupy the land so long as seedlings do. One would be fortunate to obtain 20 per cent good, salable-size trees in a 4-year block of seedlings; the remainder would require much pruning and costly labor to keep them clean while they grow into trees for which a bulldozer has to be used, eventually, to clear the land. A grafted block can be cleared in four years from the time the understock is planted.

Chrysanthemums

Chrysanthemums were the last subject discussed. George Blythe stated that to propagate quality chrysanthemums, it is necessary to start with clean, healthy plants. At his firm, planting stock is selected early in March and put in stock frames. The plants are watered and fertilized until the first week in June, at which time they are field-planted. Field rows are three and a half feet apart and plants 18 inches apart.

Ten days after planting, the plants are sprayed for foliar nematode with the following mix: one pint of Systox to 100 gallons of water. The spray is repeated in 10 days. The block is quarantined for four weeks, as the Systox is toxic and extreme care must be taken, during and after application.

For rust and aphid a mix is used of 12 ounces of sticker; three pounds of Fermate; two and one-half pounds of 50 per cent DDT; one and one-half pounds of 25 per cent lindane, and 150 gallons of water.

During August and September the plants are examined and rogued for color, stunt and mixtures. Those plants not meeting required standards for size, color and type are discarded. In November, clumps are dug, and they are packed in sawdust and kept in cold storage cellars at temperatures of 32 to 34 degrees.

Cuttings

Cuttings are taken in late February, March and April. Knives are sterilized by dipping them in methyl hydrate and then holding the blade over a lamp flame. The shoot or crown cuttings are taken first, and then; if there are not enough of them, the clumps are put into cable-heated frames, and top cuttings are taken. Usually 95 to 100 per cent rooting is

Cloverset Pots

are **FOLDED and STACKED,
READY TO USE**



Convenient, ready-to-use Cloverset pots offer you EVERY advantage for profitable cash-and-carry sales: Low cost, wide range of sizes, easy handling in potting shed and salesyard, adequate root area with proper drainage, neat appearance and simple transplanting without

disturbing roots or soil ball. (Customers can plant pot and all, if they want to, but the pots are so easy to remove that most folks prefer to.) And Cloverset pots last as long as a year in the outside sales frames. Why not order Cloverset pots NOW and be ready for spring sales? If you haven't put them to the test before, you'll discover that it pays to



TO HELP YOU SELL POTTED STOCK...

Cloverset newspaper mats and cultural directions folders prepared especially for your use. Ask for full information.

*Put Your Stock in
Cloverset Pots!*



105th and Wornall Rd.,
Kansas City 14, Mo.

CLOVERSET POT PRICES

SIZE	HEIGHT	Top Diam.	Nearest Clay Pot	No. in Carton	WEIGHT	F.O.B. KANSAS CITY		F.O.B. MOORESTOWN, N. J.*	
No. 0	5 1/2 ins.	5 ins.	6 ins.	200	Per 1000	Per 100	Per 1000	Per 100	Per 1000
No. 1	6 1/2 ins.	6 ins.	7 ins.	100	210 lbs.	\$3.75	\$35.00	\$ 4.25	\$ 40.00
No. 2	7 1/2 ins.	7 ins.	8 ins.	100	340 lbs.	4.75	45.00	5.60	53.50
No. 3	9 ins.	8 ins.	9 ins.	100	535 lbs.	5.25	50.00	6.50	62.50
					600 lbs.	5.75	55.00	7.15	69.00
No. 4	13 ins.	12 ins.	...	25	Per 100	25 pots, \$7.00; 50 pots, \$13.25;		26.75	240.00
					133 lbs.	75 pots, \$19.75; 100, \$23.75;			
						1000, \$210.00.			

EASTERN DISTRIBUTOR: MOORESTOWN GARDENS, INC., Moorestown, Burlington Co., N. J.

*NOTE to eastern nurserymen: These prices include carload freight shipment to Moorestown, a saving to you over paying less-than-carload freight from Kansas City.

Ordering information for Cloverset ROSE DUST

This potent and highly effective 2 1/2 per cent Lindane dust or spray is packaged in five sizes. 8-oz. and 1-lb. sizes are in containers; 12-oz. size is a dust gun; 50-lb. is a handy drum.

SIZE	No. in Case	Case Weight	Retail Price*	Case Price*
8-oz.	12	8 lbs.	\$0.85	\$ 6.80
12-oz.	12	13 lbs.	1.50	12.00
1-lb.	12	16 lbs.	1.50	12.00
4-lb.	6	29 lbs.	4.80	19.20
50-lb.	1	50 lbs.	55.00	36.67

*Your price in case lots. Transportation prepaid on orders of 100 lbs. or over of Cloverset Rose and Garden Dust.

**USE THIS COUPON
FOR SAMPLES AND
INFORMATION — OR
MAIL YOUR ORDER —
TODAY**

ALL SENT
CLOVERSET FARM, Dept. A POSTPAID
105th & Wornall Rd., Kansas City 14, Mo.

Please send items checked. I enclose
☐ Sample set of 5 pots, 50c. (Limit one set.)
☐ Sample of 12-oz. size Cloverset Rose and Garden Dust, no charge.
☐ More information on Cloverset Rose and Garden Dust.
☐ Complete information about pots, potting aids and advertising helps.

Name

Firm

Address

City..... Zone..... State.....

Japanese Red Maple Seedlings

ACER PALMATUM ATROPURPUREUM

All Seedlings Dark Red

Well-Hardened Transplants From Open Field Beds

	Each Per 100	Each Per 250 or over
2-yr., 6 to 8 ins., unbranched	\$0.22	\$0.20
2-yr., 8 to 10 ins., lightly br., T.	.28	.25
2-yr., 10 to 12 ins., lightly br., T.	.38	.35
2-yr., 12 to 15 ins., lightly br., T.	.45	.42

Suitable for Field Planting

2-yr., X, 6 to 8 ins., br., T.	.43	.40
2-yr., X, 8 to 10 ins., br., T.	.48	.45
2-yr., X, 10 to 15 ins., br., T.	.60	.58

Suitable for 6-in. Cloverset Pots

Salable This Spring

3-yr., XX, 8 to 10 ins., well-br., T.	.60	.57
3-yr., XX, 10 to 12 ins., well-br., T.	.70	.67
3-yr., XX, 12 to 15 ins., well-br., T.	.80	.77
3-yr., XX, 15 to 18 ins., well-br., T.	.90	.85
4-yr., XXX, 10 to 12 ins., well-br., T.	.80	.78
4-yr., XXX, 12 to 15 ins., well-br., T.	.90	.88
4-yr., XXX, 15 to 18 ins., well-br., T.	1.40	1.25

Packed in sphagnum, can ship until April 15.
20% deposit will reserve order, balance before delivery.

HUBBS NURSERIES

Rt. 130, RIVERTON, N. J.

MULTIFLORA ROSE

(*Rosa multiflora japonica*)

Upright, thorny-type, hardy, northern-grown stock, for conservation, living fences and budding understock. Our soil makes the finest fibrous roots. Our high quality is well known.

	Per 1000
1 to 3 mm. in caliper, 8 to 10 ins. in height	\$10.00
3 to 4 mm. in caliper, 10 to 15 ins. in height	15.00
4 to 6 mm. in caliper, 15 to 20 ins. in height	25.00
3 to 8 mm. in caliper, 10 to 24 ins. in height	22.50

Free Packing

BROOKVILLE NURSERIES

Box 53, Northern Blvd.

GLEN HEAD, N. Y.

achieved with these cuttings. They are started in medium-grade vermiculite.

After rooting, the cuttings are put in 2½-inch pots, using the following soil mix: two parts loam or good top soil; one part peat; one part black muck or Humar, and one part sand.

Early cuttings are put in cable-heated frames, with bottom heat of 45 to 50 degrees. Later cuttings are put in coldframes. When the cuttings have made good top growth they are pinched twice. They are watered only when necessary. Ra-Pid-Gro is used while the cuttings are still in frames.

In shipping, the chrysanthemums are knocked from the pots. The soil is wrapped with moss and the moss in turn is wrapped with wax paper. The plant is placed in a corrugated paper tube, with a rubber band at top and bottom, and a name label is slipped under the top band.

Nematode Discussion

The morning session concluded with illustrated talks on nematodes by Dr. W. B. Mountain, associate plant pathologist, Canada Department of Agriculture, plant pathology laboratory, Harrow, Ont., and Dr. J. Brown, Vineland experimental station, Vineland, Ont.

Nematode damage has been threatening many crops in Canada, particularly those growing in the lighter soils of southwestern Ontario. In general, the perennial plants, such as orchard crops and ornamentals, are particularly subject to nematode damage, since the organisms are given a chance to build up around the roots over a period of years. Nematodes may kill whole sections of root by piercing the roots and sucking plant juices, or by making openings into the roots through which fungi and bacteria may enter and cause further damage. The only feasible method of controlling plant nematodes economically at present is by injecting a chemical fumigant into the soil.

Both Dr. Mountain and Dr. Brown showed pictures of nematode damage, and Dr. Mountain gave a detailed description of the appearance of nematodes and how they work.

James S. Wells, Bobbink Nurseries, Inc., East Rutherford, N. J., gave some pointers on propagation at the afternoon session.

Marketing

E. T. Banting, H. C. Downham Nursery Co., Ltd., Strathroy, Ont., chaired the final session of the day, at which marketing nursery stock was considered.

In marketing nursery stock, cus-

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MARCH 1, 1956

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FLOWERING SHRUBS and EVERGREENS

FLOWERING SHRUBS

Shrubs in storage for immediate shipment. All two-year, field-grown stock.

Almond, pink-flowering, own root	Each Per 10	Each Per 100
6 to 18 ins., L.O.	\$0.12	\$0.10
12 to 18 ins., br.	.30	.15
18 to 24 ins., br.	.30	.25
2 to 3 ft., br.	.35	.30
3 to 4 ft., br.	.40	.35
Aithaea anemoneiflora, pink		
50 6 to 12 ins., L.O.	.04	.03½
174 12 to 18 ins., L.O.	.03	.04
350 18 to 24 ins., L.O.	.06	.05
525 12 to 18 ins., br.	.20	.15
210 3 to 4 ft., br.	.35	.30
1225 4 to 5 ft., br.	.40	.35
Aithaea Lady Stanley, pink		
25 6 to 12 ins., L.O.	.04	.03½
50 18 to 24 ins., L.O.	.06	.05
137 12 to 18 ins., br.	.20	.15
130 4 to 5 ft., br.	.40	.35
Aithaea paeoniflora, pink		
25 6 to 12 ins., L.O.	.04	.03½
25 12 to 18 ins., L.O.	.03	.04
450 18 to 24 ins., L.O.	.06	.05
800 12 to 18 ins., br.	.20	.15
740 18 to 24 ins., br.	.20	.15
Aithaea Boule de Feu, red		
63 6 to 12 ins., L.O.	.04	.03½
150 12 to 18 ins., L.O.	.03	.04
194 18 to 24 ins., L.O.	.06	.05
50 12 to 18 ins., br.	.20	.15
Aithaea Lucy, red		
63 6 to 12 ins., L.O.	.04	.03½
280 18 to 24 ins., L.O.	.06	.05
700 12 to 18 ins., br.	.20	.15
Aithaea Rubis, red		
75 6 to 12 ins., L.O.	.04	.03½
150 12 to 18 ins., L.O.	.03	.04
500 18 to 24 ins., L.O.	.06	.05
750 12 to 18 ins., br.	.20	.15
2285 2 to 3 ft., br.	.30	.25
Aithaea, tree form, red		
2 to 3 ft.	.30	.25
3 to 4 ft.	.35	.30
4 to 5 ft.	.40	.35
5 to 6 ft.	.45	.40
Aithaea, tree form, pink		
8 to 4 ft.	.35	.30
Aithaea, tree form, white		
3 to 4 ft.	.35	.30
Barberry, red-leaved		
270 9 to 12 ins., br.	.20	.15
660 12 to 16 ins., br.	.25	.20
155 24 to 30 ins., br.	.40	.35
Buddleia farquhari, purple, 1-yr.		
200 L.O.	.06	.05
120 No. 2	.15	.10
Buddleia magnifica		
240 L.O.	.06	.05
223 No. 2	.15	.10
Buddleia Pink Charming, 1-yr.		
576 No. 2	.15	.10
103 No. 1	.25	.20
Cydonia japonica rubra		
150 12 to 18 ins., 2 br.	.25	.20
205 18 to 24 ins., 2 br.	.30	.25
580 12 to 18 ins., br.	.30	.25
Deutzia Pride of Rochester		
25 6 to 12 ins., L.O.	.05	.04
100 12 to 18 ins., L.O.	.06	.05
443 18 to 24 ins., L.O.	.07	.06
775 12 to 18 ins., br.	.15	.10
1660 18 to 24 ins., br.	.20	.15
2030 2 to 3 ft., br.	.25	.20
200 3 to 4 ft., br.	.30	.25
Deutzia rosea		
50 12 to 18 ins., L.O.	.06	.05
100 18 to 24 ins., L.O.	.07	.06
475 12 to 18 ins., br.	.15	.10
1310 18 to 24 ins., br.	.20	.15
1018 2 to 3 ft., br.	.25	.20
70 2 to 3 ft., 2 br.	.20	.15
Forsythia fortunei		
25 6 to 12 ins., L.O.	.04	.03½
270 18 to 24 ins., 2 br.	.15	.10
170 2 to 3 ft., 2 br.	.20	.15
740 12 to 18 ins., br.	.25	.20
1800 18 to 24 ins., br.	.20	.15
1065 2 to 3 ft., 3 br.	.22½	.17½

Forsythia spectabilis	Each Per 10	Each Per 100
75 6 to 12 ins., L.O.	\$0.04	\$0.03½
725 12 to 18 ins., L.O.	.05	.04
2147 18 to 24 ins., L.O.	.06	.05
970 18 to 24 ins., 2 br.	.15	.10
1010 2 to 3 ft., 2 br.	.20	.15
1275 12 to 18 ins., br.	.15	.10
2190 18 to 24 ins., br.	.20	.15
2150 2 to 3 ft., 3 br.	.22½	.17½
Honeysuckle, fragrantissima		
100 6 to 12 ins., L.O.	.05	.04
600 12 to 18 ins., L.O.	.06	.05
1125 18 to 24 ins., L.O.	.07	.06
625 12 to 18 ins., 2 br.	.12	.10
1196 18 to 24 ins., 2 br.	.15	.12
2632 12 to 18 ins., br.	.15	.12
2280 18 to 24 ins., br.	.25	.20
Honeysuckle, heckeri		
995 No. 1½	.25	.20
3345 No. 1	.30	.25
Honeysuckle, morrowi		
12 to 18 ins., L.O.	.05	.04
18 to 24 ins., L.O.	.06	.05
12 to 18 ins., br.	.12	.10
18 to 24 ins., br.	.12½	.12½
2 to 3 ft., br.	.22½	.17½
3 to 4 ft., br.	.27½	.22½
4 to 5 ft., br.	.32½	.27½
Honeysuckle, zabeli		
150 6 to 12 ins., L.O.	.04	.03
50 12 to 18 ins., L.O.	.05	.04
80 18 to 24 ins., L.O.	.06	.05
890 18 to 24 ins., 2 br.	.12	.10
880 2 to 3 ft., 2 br.	.15	.12
1775 12 to 18 ins., br.	.15	.12
2320 18 to 24 ins., br.	.20	.15
2180 2 to 3 ft., br.	.25	.20
Lilac, rothomagensis		
3860 18 to 24 ins., br.	.30	.25
Philadelphus coronarius		
155 12 to 18 ins., L.O.	.15	.10
305 18 to 24 ins., br.	.20	.15
150 2 to 3 ft., br.	.25	.20
560 3 to 4 ft., br.	.30	.25
85 4 to 5 ft., br.	.35	.30
Philadelphus grandiflorus		
25 6 to 12 ins., L.O.	.05	.04
50 18 to 24 ins., L.O.	.06	.05
100 12 to 18 ins., br.	.15	.10
260 18 to 24 ins., br.	.20	.15
264 2 to 3 ft., br.	.25	.20
40 3 to 4 ft., br.	.30	.25
Philadelphus Virginial		
230 18 to 24 ins., br.	.30	.25
325 2 to 3 ft., br.	.35	.30
Privet, Regel		
210 12 to 15 ins., br.	\$0.17½	\$0.12½
280 15 to 18 ins., br.	.20	.15
160 18 to 24 ins., br.	.25	.20
265 24 to 30 ins., br.	.30	.25
280 30 to 36 ins., br.	.35	.30
Privet, Amur River North		
9 to 12 ins., br.	.06	.05
18 to 24 ins., 2 br.	.07	.06
18 to 24 ins., br.	.08	.07
2 to 3 ft., br.	.09½	.08½
3 to 4 ft., br.	.10½	.09½
Privet, Ibollum		
1170 18 to 24 ins., L.O.	.04	.03½
125 2 to 3 ft., 2 br.	.07	.06
1435 12 to 18 ins., br.	.07	.06
3560 2 to 3 ft., br.	.08½	.07½
2040 3 to 4 ft., br.	.10½	.09½
25 4 to 5 ft., br.	.12	.11
Privet, California		
588 6 to 12 ins., L.O.	.02½	.02
1322 18 to 24 ins., L.O.	.03½	.03
3617 2 to 3 ft., br.	.08½	.07½
2715 3 to 4 ft., br.	.09½	.08½
66 4 to 5 ft., br.	.11	.10
Rosa Hansa		
1510 No. 2	.20	.15
2500 No. 1½	.30	.25
5000 No. 1	.35	.30
Rosa Pink Grootendorst		
50 No. 2	.20	.15
1280 No. 1	.35	.30
Rosa Grootendorst Supreme		
2470 No. 1	.35	.30
Rosa Harrison's Yellow		
40 No. 2	.20	.15
80 No. 1½	.30	.25
1014 No. 1	.35	.30
Spiraea Anthony Waterer		
2590 9 to 12 ins., br.	\$0.20	\$0.15
1090 12 to 15 ins., br.	.25	.20
536 15 to 18 ins., br.	.30	.25
Spiraea froebeli		
760 15 to 18 ins., br.	.30	.25
1040 18 to 24 ins., br.	.35	.30
480 24 to 30 ins., br.	.40	.35
Spiraea nana (Dwarf Ninebark)		
1025 12 to 18 ins., br.	.15	.10
1120 18 to 24 ins., br.	.20	.15
4490 2 to 3 ft., br.	.25	.20
3965 3 to 4 ft., br.	.30	.25

Spiraea opulifolia aurea (Golden Ninebark)	Each Per 10	Each Per 100
100 6 to 12 ins., L.O.	\$0.04	\$0.03
515 18 to 24 ins., L.O.	.06	.05
590 18 to 24 ins., 2 br.	.15	.10
200 12 to 18 ins., br.	.15	.10
1080 18 to 24 ins., br.	.20	.15
240 2 to 3 ft., 2 br.	.17	.12
Spiraea prunifolia		
125 12 to 18 ins., br.	.20	.15
125 18 to 24 ins., br.	.25	.20
Spiraea vanhouttei		
18 to 24 ins., L.O.	.05	.04
12 to 18 ins., hdg.	.06	.05
18 to 24 ins., hdg.	.08	.06
12 to 18 ins., br.	.10	.06
18 to 24 ins., br.	.15	.10
2 to 3 ft., br.	.20	.15
3 to 4 ft., br.	.25	.20
Viburnum opulus sterile		
160 9 to 12 ins., br.	.20	.15
Weigela rosea, pink		
25 6 to 12 ins., L.O.	.05	.04
128 12 to 18 ins., L.O.	.06	.05
275 18 to 24 ins., L.O.	.09	.07
256 12 to 18 ins., br.	.20	.15
100 18 to 24 ins., 2 br.	.15	.12½
72 2 to 3 ft., 2 br.	.20	.15
30 2 to 3 ft., br.	.30	.25
132 3 to 4 ft., br.	.35	.30
Weigela Eva Rathke, red		
3925 12 to 18 ins., br.	.25	.20
3650 18 to 24 ins., br.	.30	.25
Weigela floribunda, red		
22 12 to 18 ins., L.O.	.10	.07½
60 18 to 24 ins., L.O.	.12	.10
119 12 to 18 ins., br.	.25	.20
180 18 to 24 ins., br.	.30	.25
Magnolia soulangeana, field-grown		
178 18 to 24 ins., L.O. B.R., T.	\$0.60	\$0.45
1285 12 to 18 ins., br. B.R., T.	.75	.60
1655 18 to 24 ins., br. B.R., T.	1.00	.75
35 2 to 3 ft., br. B.R., T.	1.25	.90
Lombardy Poplar, 1-yr.		
225 12 to 18 ins., L.O.	\$0.04	\$0.03
350 18 to 24 ins., L.O.	.06	.05
975 2 to 3 ft.	.08	.06
275 3 to 4 ft.	.10	.08
680 4 to 5 ft.	.12	.10
55 5 to 8 ft.	.25	.20
Willow, Thurlow		
38 4 to 5 ft.	.60	.40
160 6 to 8 ft.	1.00	.75
80 8 to 10 ft.	1.25	1.00
Willow, Niohe		
255 3 to 4 ft.	.40	.30
783 4 to 5 ft.	.60	.40
208 5 to 6 ft.	.75	.50
143 6 to 8 ft.	1.00	.75

EVERGREENS

Juniper, Savin	Each
15 to 18 ins., B.&B.	\$1.25
18 to 24 ins., B.&B.	1.50
Juniper, Pfitzer, sheared, heavy	
15 to 18 ins., B.&B.	1.50
18 to 24 ins., B.&B.	1.75
24 to 30 ins., B.&B.	2.25
30 to 36 ins., B.&B.	2.75
Juniper, Von Ehron, spreading, sheared	
24 to 30 ins., B.&B.	2.25
Juniper, burkii, sheared	
3 to 4 ft., B.&B.	3.50
Juniper, canneri, sheared	
3 to 4 ft., B.&B.	3.50
4 to 5 ft., B.&B.	4.00
BROAD-LEAVED EVERGREENS	
Abelia grandiflora, heavy	
2 to 3 ft., B.&B.	\$1.00
3 to 4 ft., B.&B.	1.25
Cherry Laurel, sheared	
2 to 3 ft., B.&B.	1.25
3 to 4 ft., B.&B.	1.50
4 to 5 ft., B.&B.	2.00
Euonymus patens	
15 to 18 ins., B.&B.	1.00
18 to 24 ins., B.&B.	1.25
24 to 30 ins., B.&B.	1.50
Ilex burfordii, heavy	
15 to 18 ins., B.&B.	1.50
18 to 24 ins., B.&B.	1.75
24 to 30 ins., B.&B.	2.00
Ilex cornuta femina, heavy	
15 to 18 ins., B.&B.	1.50
18 to 24 ins., B.&B.	1.75
Ligustrum lucidum	
15 to 24 ins., B.&B.	1.00
24 to 30 ins., B.&B.	1.25
Magnolia grandiflora	
3 to 4 ft., B.&B.	3.00
4 to 5 ft., B.&B.	4.00
Nandina domestica	
18 to 24 ins., B.&B.	1.00
24 to 30 ins., B.&B.	1.25
30 to 36 ins., B.&B.	1.50

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A beautiful, luminous red Mallow, selected for its rich color, overlapping petals, dark green foliage, medium size and lack of coarseness. Flowers in July, August and September—even until frost. A single two-year plant bore 250 six to seven-inch flowers in one season. Quite hardy.

Easy to grow and transplant.

An ideal plant for mail-order and garden store business.

2-yr., No. 1 Plants

\$17.50 per 10; \$150.00 per 100; \$1,250.00 per 1000.

Color plate available.

Attractive metal plant patent tag attached to each plant.

Write for trade list.

Chinese Chestnut.	Per 10	Per 100
Hemming strain		
2 to 3 ft.	\$ 6.00	\$55.00
3 to 4 ft.	7.50	70.00
4 to 5 ft.	10.00	
5 to 6 ft.	15.00	
6 to 7 ft.	20.00	
Abelia grandiflora		Each
2 to 3 ft., B&B		\$1.75

Tree Box	Each
3 to 4 ft., B&B	\$4.00
Elaeagnus pungens	
18 to 24 ins., B&B	1.50
Plitser Juniper	
24 to 30 ins., B&B	3.50
Ligustrum lucidum	
18 to 24 ins., B&B	1.75

Southern Magnolia	Each
2 to 3 ft., B&B	\$3.50
Pyramidal Arborvitae	
2 to 3 ft., B&B	3.00
Nandina domestica	
2 to 3 ft., B&B	2.25
Osmanthus illicifolius	
2 to 3 ft., B&B	3.00

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tomers must be made aware of what the nurseryman has to offer. This fact was stressed by K. C. Tack, advertising manager of the Jackson & Perkins Co., Newark, N. Y., who spoke on mail-order marketing. The customer must know and have confidence in the firm. To supply this knowledge, Mr. Tack advocated general advertising, arousing interest in a new product by special advertising, familiarizing the public with the personnel and giving interesting facts about the company, obtaining editorial support and selling exactly what is advertised.

A film, "The Story That Couldn't Be Told," depicting the first steps in gaining freedom of the press, was shown. D. Bannerman, advertising department of the Toronto Daily Star, Toronto, Ont., then spoke on the value of newspaper advertising. He stated that the newspaper contributed to the Canadian way of life and, saying he regarded nursery stock as essential to Canadian living, challenged the nurserymen on the lack of steady advertising of their products to the public.

Harris Holmes, of the Canadian Daily Newspaper Publishers' Association, Toronto, declared that what is said in an advertisement determines the readership of the ad. He recom-

QUALITY LINERS

	Per 100
Colorado Blue Spruce.	
4 to 8 ins., transplants, 4-yr.	\$15.00
French Hybrid Lilacs, best varieties,	
6 to 12 ins., grafts, 1-yr.	27.50
Rhododendron Hybrids, red seed,	
4 to 10 ins., transplants	45.00
Pink-flowering Dogwood.	
10 to 15 ins., 2-yr. grafts	75.00
15 to 24 ins., 2-yr. grafts	85.00

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mended splash advertising in newspapers, as well as continuous advertising, but cautioned his audience about repeating the same advertisement. There should be variety in the way advertising is handled.

R. Fitzell, Simpson-Sears, Toronto, final speaker of the day, talked on the catalog and garden store and stressed the value of both.

"PLANT TEXAS" WINNER

A woman resident of Fort Worth, Tex., recently won a "Plant Texas" contest featured on the Dallas television show titled "Texas Living," in conjunction with the "Plant Dallas, Plant Texas, Plant America" program of the Nursery Landscape Association of Dallas. The prize, a

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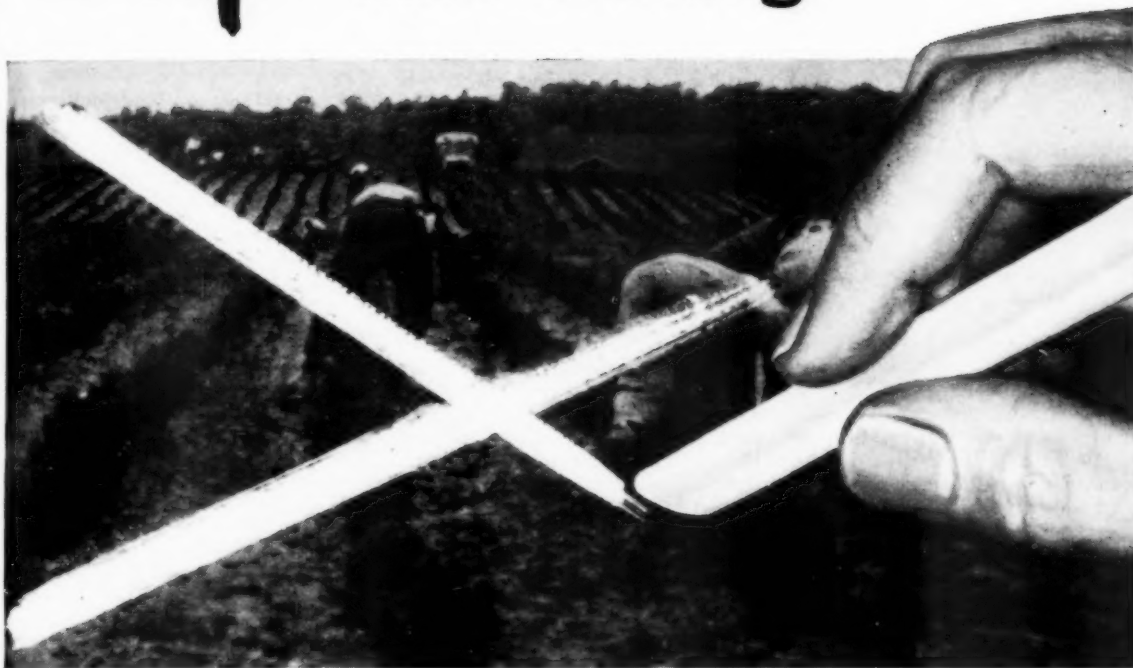
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certificate entitling the holder to have a \$500 patio built and landscaped to specifications, was presented to the winner by Margaret McDonald, who conducts the TV show.

Stop hand weeding



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Trade-Mark

**to prevent weeds
to save money
to eliminate hand labor**

Nurserymen all over the country are relying on CRAG Herbicide-1 as the easiest and best way to cut their weeding costs. CRAG Herbicide-1 *does the work* by killing weed seeds as they sprout—before they can cause trouble! You eliminate much of the labor and expense of hand weeding and avoid cultivation damage to stock. You also get faster-growing stock of better quality when it does not have to compete with weeds.

It's easy to use—far easier than hand weeding. Just mix CRAG Herbicide-1 with water and spray it on. It's easy to handle because it will not hurt the leaves even when sprayed directly on your nursery stock.

Save the money you have been putting into hand weeding. Get CRAG Herbicide-1 from your dealer now!



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Round Tables at Ohio Short Course

CONTAINER PRODUCTION

The program for nurserymen's day, January 18, at the Ohio short course held at the Neil House, Columbus, was closed with a round-table workshop on several topics, as noted in the general report of the sessions published in the February 15 issue of this magazine. The opening discussion at that round table was on "Container Production of Nursery Stock," with Frank Turner, Berryhill Nursery Co., Springfield, moderator. A report of this period follows:

One member of the panel, Gerard C. Klyn, Jr., Gerard K. Klyn, Inc., Mentor, O., gave his experiences with various plants grown in containers. He did not fare well with Japanese and red maples. Best results were experienced with evergreens. He listed winter protection as a major problem of growing container stock. To be profitable, he said, a container-grown plant must sell for at least 75 cents.

Zophar Warner, Warner Nurseries, Willoughby, O., said that fertilization, watering and winter protection require special attention in growing container stock. The customer is the main benefactor of the container idea; he gets a specimen plant with an undamaged root system. Since the plant should be a specimen if it is to have customer acceptance, pruning is highly important. Mr. Warner's theory is that with few exceptions the plant should be in the container only one year; therefore, planning for a definite time of sale is necessary.

Winter Protection Tests

Philip Barker, of the department of horticulture and forestry at Ohio State University, has been running a series of experiments with container-grown nursery stock. In his winter protection tests, five treatments were used: Mulched with corn cobs; mulched with sawdust; with no protection; with protection on the exposed sides (south and west), using baled straw, two bales high, and surrounded with baled straw, two bales high. Plants survived equally well with either of the two mulch materials. In the beds protected otherwise, plant types that were hardiest survived, while other types were killed.

Metal containers dipped in an asphalt cutback mixture have held

[Continued on page 54]

"JUNIPER VARIETIES"

The round-table workshop panel on "Juniper Varieties" held on nurserymen's day, January 18, at the Ohio short course at Columbus was led by Lewis Bookwalter, Berryhill Nursery Co., Springfield, O.; William D. Cole, Cole Nursery Co., Painesville, O., and John B. Hill, D. Hill Nursery Co., Dundee, Ill. The following summary of the discussion supplements the earlier report of the event.

The genus *juniperus* is one of the most useful and varied groups of plants available for planting in Ohio. Today's trend away from junipers and to taxus and certain broad-leaved evergreens was discussed. There is a great demand for spreading, slow-growing plants around homes, and taxus seems to fulfill these requirements better than do junipers. The emphasis on slow-growing plants is due partly to the fact that landscape planters can no longer maintain plantings as they did in the past and partly to the fact there is a scarcity of maintenance men who understand pruning.

Perhaps junipers have been overplanted in the past, and people have turned to taxus for something different. Perhaps growers and landscape men have tended to push the sale of yews more because they are new.

A general opinion holds that yews are more valuable plants in the landscape for a longer period of time than are junipers. People may be inclined to take better care of yews when they buy them, because yews are more expensive plants and also because they are new plants. Junipers may require more care than taxus. In addition to being slower growing than junipers, taxus is also freer from disease.

Qualities of Junipers

On the other hand, there is still much to be said in favor of junipers. Junipers have a much greater variation in color of foliage and of texture than taxus. In certain areas, as in the heavy soils of the midwest, taxus plants do poorly, and junipers sell well in such areas. The fact that junipers have been so widely planted and are so common is proof that they

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Since 1881 Cole has been recognized as a reliable source of landscape material of dependable high quality. We can supply your needs promptly in large quantity and wide variety.

Due to soil conditions at our nursery and growing techniques developed in 75 years of experience, Cole Pedigreed trees and nursery stock produce better, more compact root systems which make for strong, healthy plants. Modern, mechanized systems of cultivation and digging and careful packing methods protect valuable roots from injury.

You can be sure of getting good plants, delivered promptly in good condition, when you buy from Cole.



Spectacular SUNBURST gives you the first NEW COLOR in an ornamental shade tree in decades.

Here, at last, is a really good yellow in a shade tree—not a pale washed-out color, but a rich, healthy golden-yellow. The bright golden-yellow on branch tips contrasts sharply with the rich green inner foliage to make SUNBURST look like a flowering tree bursting with bloom all summer long.

The Honey Locust, in selected forms, was recently named one of "The Ten Top Trees of Tomorrow" by a panel of prominent tree experts. In the SUNBURST Locust, spectacular new color is added to all the other good features which led to this selection. With a broadly pyramidal head and excellent branching habit, SUNBURST grows straight with a stately form and natural symmetry.

SUNBURST provides a lacy shade beneficial to lawns, is absolutely seedless and causes no ground litter. It is extremely hardy, transplants easily, is widely adaptable and highly resistant to insects and disease. Its unusual strength enables it to withstand ice and snow storms, drought and poor drainage.

Make sure of your supply of the colorful, new SUNBURST. Order now.



*Plant Patent No. 1313.

Gleditsia triacanthos inermis aurea.

SUNBURST

	Each 10 to 29	Each 30 to 299	Each 300 and up
5 to 6 ft., 1-yr., br.	\$3.25	\$2.90	...
6 to 7 ft., 1-yr., br.	4.10	3.70	\$3.25
7 to 8 ft., 1-yr., br.	4.75	4.30	3.60
6 to 7 ft., 2-yr., br.	4.75	4.30	...
7 to 8 ft., 2-yr., br.	5.60	5.10	...
1 to 1 1/4-in. cal.	7.50	6.75	...
1 1/4 to 1 1/2-in. cal.	10.00	9.00	...

SURPLUS LIST

	Each 30 to 249	Each 250 and up		Each 30 to 249	Each 250 and up
FLOWERING CRAB APPLE ALMAY			DEUTZIA LEMOINEI		
500 4 to 5 ft.	\$1.35	\$1.15	400 1 1/2 to 2 ft.	\$0.40	\$0.35
FLOWERING CRAB APPLE ELEYI			500 2 to 2 1/2 ft. ....	.50	.43
263 4 to 5 ft. ....	.90	.80	400 2 1/2 to 3 ft. ....	.65	.57
300 5 to 6 ft.	1.35	1.15	EUONYMUS ALATUS COMPACTUS		
ARONIA ARBUTIFOLIA			1150 2 to 2 1/2 ft.	1.35	1.20
500 1 1/2 to 2 ft. ....	.45	.40	925 2 1/2 to 3 ft.	1.65	1.45
300 2 to 3 ft. ....	.55	.50	FORSYTHIA ARNOLD DWARF		
175 3 to 4 ft. ....	.70	.60	850 12 to 18 ins. ....	.35	.30
ARONIA BRILLIANTISSIMA			485 1 1/2 to 2 ft. ....	.60	.55
500 2 to 3 ft. ....	.55	.50	210 2 to 2 1/2 ft. ....	.80	.70
300 3 to 4 ft. ....	.70	.60	FORSYTHIA SPRING GLORY		
ARONIA MELANOCARPA			100 1 1/2 to 2 ft. ....	.40	.35
425 12 to 18 ins. ....	.38	.32	585 2 to 3 ft. ....	.50	.45
380 1 1/2 to 2 ft. ....	.45	.40	234 3 to 4 ft. ....	.60	.55
375 2 to 2 1/2 ft. ....	.55	.50	HYPERICUM HIDCOTE		
BARBERRY, GREEN, heavy, field			450 2-yr., 1 1/2 ft. and up. ....	.50	.40
804 15 to 18 ins. ....	.24	.21	HYPERICUM KALMIANUM		
1000 1 1/2 to 2 ft. ....	.30	.26	550 1 1/2 to 2 ft. ....	.40	.35
1600 2 to 2 1/2 ft. ....	.40	.32	265 2 to 2 1/2 ft. ....	.55	.50
BARBERRY, RED, heavy, field			NINEBARK, GOLDEN		
400 12 to 15 ins. ....	.27	.25	600 12 to 18 ins. ....	.35	.29
1250 15 to 18 ins. ....	.32	.28	1150 1 1/2 to 2 ft. ....	.50	.43
1600 1 1/2 to 2 ft. ....	.45	.36	1900 2 to 3 ft. ....	.40	.35
740 2 to 2 1/2 ft. ....	.55	.48	570 3 to 4 ft. ....	.50	.45
1900 2 1/2 to 3 ft. ....	.65	.55	PRIVET, REBEL		
BARBERRY, KOREAN			2600 12 to 18 ins. ....	.22	.20
350 2 to 2 1/2 ft. ....	.45	.40	1800 1 1/2 to 2 ft. ....	.35	.30
500 2 1/2 to 3 ft. ....	.55	.50	2200 2 to 2 1/2 ft. ....	.45	.40
BARBERRY, MENTORENSIS			950 2 1/2 to 3 ft. ....	.60	.55
650 15 to 18 ins. ....	.40	.35	RHAMNUS FRANGULA		
700 1 1/2 to 2 ft. ....	.50	.44	500 2 to 3 ft. ....	.45	.40
640 2 to 2 1/2 ft. ....	.65	.58	2400 3 to 4 ft. ....	.60	.50
275 2 1/2 to 3 ft. ....	.80	.70	1750 4 to 5 ft. ....	.80	.65
BARBERRY, TRUEHEDGE			1200 5 to 6 ft.	1.00	.85
570 12 to 15 ins. ....	.27	.25	ROSA MAX GRAF		
1525 15 to 18 ins. ....	.32	.30	461 2-yr., No. 1 ....	.50	.45
1100 1 1/2 to 2 ft. ....	.37	.35	VIBURNUM BURKWOODI		
2200 2 to 2 1/2 ft. ....	.45	.40	350 15 to 18 ins. ....	.75	.68
BUDDLEIA (Butterfly Bush), No. 1			175 1 1/2 to 2 ft. ....	.85	...
255 Burgundy, red ....	.30	.24	360 2 to 3 ft.	1.25	1.10
200 Charming, pink ....	.30	.24	130 3 to 4 ft., B&B	3.50	...
245 Dubonnet, wine-purple ....	.30	.24	VIBURNUM CHENAUTI		
350 Pink Dawn, pink ....	.30	.24	200 1 1/2 to 2 ft.	1.00	...
417 Snowbank, white ....	.30	.24	180 2 to 2 1/2 ft.	1.50	...
CORNUS PANICULATA (Gray Dogwood)			100 2 1/2 to 3 ft., B&B	3.00	...
800 2 to 3 ft. ....	.45	.38	50 3 to 4 ft., B&B	4.00	...
1425 3 to 4 ft. ....	.55	.48	VIBURNUM JUDDI		
560 4 to 5 ft. ....	.70	.60	66 15 to 18 ins., B&B	2.50	...
1100 5 to 6 ft. ....	.90	.75	65 1 1/2 to 2 ft., B&B	3.00	...
CORNUS STOLONIFERA (Red Osier)			IVY, ENGELMANN		
4000 2 to 3 ft. ....	.40	.35	500 2 yr., No. 1 ....	.25	.22
1600 3 to 4 ft. ....	.55	.45	TRUMPET VINE, MME. GALEN		
DEUTZIA GRACILIS			510 Medium ....	.60	.50
950 15 to 18 ins. ....	.50	.45	170 No. 1 ....	.80	...
1400 1 1/2 to 2 ft. ....	.60	.52	PEONY, OFFICINALIS RUBRA		
365 2 to 2 1/2 ft. ....	.75	.67	(Early Red Double Peony)		
DEUTZIA GRACILIS ROSEA			450 3 to 5-eye65	.50
300 2 to 2 1/2 ft.65	.55			
700 2 1/2 to 3 ft.75	.65			

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SCOTCH PINE 2-YR., 2 to 4 INS., \$10.00 PER 1000

	Per 1000		Per 1000
Scotch Pine, 2-yr., 4-8 ins.	\$20.00	Norway Spruce, 2-yr., 2-4 ins.	\$15.00
3-yr., 6-10 ins.	35.00	Norway Spruce, 2-yr., 4-8 ins.	25.00
2-1, 3-6 ins.	30.00	White Spruce, 2-yr., 2-4 ins.	15.00
2-2, 6-10 ins.	50.00	3-yr., 4-6 ins.	20.00
Scotch Pine, Riga, 2-yr., 2-4 ins.	15.00	3-yr., 5-8 ins.	35.00
Scotch Pine, Riga, 2-yr., 4-8 ins.	25.00	Colorado Blue Spruce, 3-yr., 3-5 ins.	30.00
Austrian Pine, 2-yr., 3-5 ins.	20.00	Colorado Blue Spruce, 3-yr., 5-9 ins.	45.00
Red Pine, 2-yr., 2-4	15.00	Red Spruce, 3-yr., 3-6 ins.	15.00
3-yr., 4-6 ins.	25.00	3-yr., 6-10 ins.	25.00
3-yr., 6-12 ins.	30.00	4-yr., 10-16 ins.	35.00
4-yr., 12-18 ins.	40.00	Black Hills Spruce, 2-yr., 2-4 ins.	15.00
Ponderosa Pine, 2-yr., 3-6 ins.	20.00	White Spruce, 3-yr., 4-6 ins.	20.00
Mugho Pine, 3-yr., 2-5 ins.	20.00	White Spruce, 3-yr., 5-8 ins.	35.00
4-yr., 4-7 ins.	35.00	Douglas Fir, 2-yr., 2-4 ins.	20.00
4-yr., 6-12 ins.	50.00	Douglas Fir, 3-yr., 3-5 ins.	25.00

SURPLUS STOCK — ARBORVITAE — SPECIAL SALE

Priced right. These are shipped bare-rooted, packed in sphagnum moss.

	Each 1 to 10	Each 11 to 50	Each 51 or more
2 to 3 ft.	\$1.50	\$1.40	\$1.25
3 to 4 ft.	1.75	1.60	1.50

Prices are F.O.B. Shelocta, Pa. 5% discount on 25,000 or more. Deposit of 25% of order required to book order. Some items are in limited supply; book order early!

are good plants. Eventually, juniper and taxus planted at the same time will require the same amount of pruning and general maintenance. It is only in the first few years after planting that junipers require more pruning. In situations where changes are made in the landscape planting every few years, juniper is just as satisfactory as taxus. People buying in sales lots generally want large, relatively cheap plants, and in such cases junipers usually sell better than yews.

Spreading junipers are the kinds most grown today. Pfitzer juniper is the best known and most widely grown plant in this group. Actually, Pfitzer juniper may grow too large and coarse for many uses, and dwarf or compact varieties may replace it to some extent. Pfitzer juniper is an expensive plant, despite its fast growth, because of the pruning and time required to shape it. There is a trend away from sheared material toward material which grows formally without shearing. In general, the more compact and slower-growing junipers are coming into favor in landscaping.

Other plants in the Pfitzer group include Mayhew, Hetz, Owens' compact and Armstrong's compact. Hetz grows even more rapidly than Pfit-

LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

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DEERFIELD STREET P. O., N. J.

NORTHERN COLLECTED EVERGREENS

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PLANTS

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WILLIAM CROSBY HORSFORD
CHARLOTTE, VT.

zer and may get out of hand quickly. Armstrong's compact is an excellent plant, slow growing, compact, grass green in color.

Blight-Free Junipers

Juniperus sabina is a good plant, but it blights badly in Ohio. Juniperus sabina vonehron is relatively blight free. Two varieties of Juniperus sabina, originally from Russia, Arcadia and Broadmoor, seem to have considerable merit. Another variety, Grey Owl, from western

VERKADE'S OFFERS

3200 Ampelopsis veitchii	
1-yr., T., 12 to 18 ins., tops	8c
2000 Azalea amoena	
2-yr., T.	25c
2000 Azalea vaseyi	
2-yr., T.	25c
2200 Cotoneaster divaricata	
2-yr., T., 12 to 18 ins.	18c
1500 Cotoneaster horizontalis	
2-yr., T., 6 to 9 ins.	18c
10,000 Taxus cuspidata capitata	
2-yr., S.	10c
2000 Viburnum dilatatum	
2-yr., S.	10c

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Europe, is also promising. None of these three suffers from blights.

Juniperus chinensis sargentii is a low, hardy, blight-free variety, but is difficult to dig and move, because of the stiff, low branches, and it does not make a well-rounded plant so rapidly as some other low junipers. It is popular in landscape work because of its low growth. Juniperus chinensis sargentii is so sensitive to malathion that a single application may defoliate it.

The plume, or Andorra juniper is

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Rose on left was Ra-Pid-Gro fed.



This dispensing display sells Ra-Pid-Gro for you!

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Nurserymen who *use* Ra-Pid-Gro know well that it produces:

1. Healthier stock.
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4. Properly timed blooms.

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SELL IT!

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RA-PID-GRO is tailor-made for homeowners, parks, cities, town and county highway departments. RA-PID-GRO is precision-made. Only 40 lbs. to the batch can be mixed in a special mixer made by Ra-Pid-Gro Corp. RA-PID-GRO's raw chemicals cost more—and it costs more to manufacture RA-PID-GRO—yet the price is the same as it was in 1941.

ANALYSIS 23-21-17

RA-PID-GRO

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Euonymus Trueshrub (Plant Pat. 1073)

plus 3 other money-makers

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Require no staking . . . little shearing or shaping . . . compact form . . . high disease resistance . . . resistant to dog urine . . . drought endurance . . . low temperature adaptability. They make wonderful hedge plants, foundation or ornamental shrubs.

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similar to the Sargent juniper and might be used as a substitute for it. Although the former, too, is low-growing, the branches are more flexible, and consequently the plant is easier to dig and move. The Andorra juniper rapidly develops into a well-rounded plant. It is a good variety and widely grown, but the purple color of the foliage in winter may be undesirable in some situations.

Juniperus chinensis prostrata, also known as J. San Jose and J. squamata, is an excellent low juniper grown on the west coast.

Juniperus chinensis Blaauw is a dwarf, slow-growing Dutch variety with blue foliage. It is ultimately the same in height and width, but is irregular in form.

Bar Harbor is a good, dense, low-growing juniper.

Juniperus chinensis Maney is a bright blue color, spreading, and can be used where Pfizer would get too large. It will become two and one-half times as wide as it is high.

In the intermediate class, Juniperus chinensis stricta is satisfactory variety. Juniperus chinensis Ames is slower growing and does not defoliate in the center.

Upright Junipers

Few upright junipers are now planted. They seem unsuited to most modern homes. Juniperus communis is still widely grown. Upright junipers have other uses than for foundation planting. They may be used with good effect for screen and border planting. The Keteleer juniper is a good upright plant. Mountbatten is a blue chinensis clone from Canada, dense and a moderate grower. Hill Dundee is an upright-growing selection of the northern red cedar and is a good variety. Juniperus chinensis Iowa is comparable to the twisted juniper of the west coast. It is a rough, irregular upright plant which does well in Ohio.

The large-growing junipers, such as the red cedar, or Juniperus virginiana, have lasting value. Juniperus virginiana is more drought resistant than many other evergreen trees and does well on rocky hillsides.

Growers and landscape men can have a great influence on what plants are popular. The aim of growers should be to produce junipers which are especially hardy and healthy. Junipers will continue to occupy a considerable place in growing and landscaping. Although the spreading types will continue to be the most popular, upright junipers do have a place in landscaping and will still be grown.

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Per 100 Per 1000
2 yr., S., 4 to 8 ins. . . \$ 12.00 \$ 100.00

Own-Root Plants

1-yr., T., 3 to 5 ins. . . 15.00 135.00
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1-yr., T., 5 to 8 ins. . . 75.00
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SELECTED COLORADO BLUE SPRUCE GRAFTS

(Picea pungens glauca)

1-yr., T., 80.00 700.00
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1-yr., whips,
12 to 18 ins. 15.00 135.00
18 to 30 ins. 22.00 180.00

BLACK HILLS SPRUCE

5-yr., T., sheared,
8 to 12 ins. 25.00 220.00
All items bare-root, packed in moss.
500 plants take 1000 rate. Write for trade list.

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Perfect combination to protect trees, shrubs, seedlings from pest and fungus attacks.

The 125 sprayer reaches highest shade trees (or a wide area of low growth) with a fine, long-lasting mist that covers every leaf and limb. There's no drip from trees to waste spray. And, both wettable powders and emulsified liquids may be used. Turret rotates 360 degrees. Has handy controls.

This combination takes only two men, uses less spray and does two to three times as much work as old-fashioned hydraulic rigs. A separate gun and hose assembly may be attached to the pump motor of the 125 to spray inaccessible spots.

Oliver Super 55 really gets around fast. It has six forward speeds (top 15 m.p.h.) and a complete line of front-mounted and three-point hitch tools to master a hundred everyday jobs around nurseries. Your choice of a gas or diesel engine keeps costs of operation low.

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	Per 100	Per 1000	Per 10,000 at rate
SCOTCH PINE			
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3 to 6 ins. (3-1)	6.00	40.00	35.00

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4 to 8 ins. (3-1)	8.00	50.00
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100 at 100 rate; 1000 at 1000 rate; 5000 and up at 10,000 rate.			

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BOSTON IVY	Per 100	Per 1000
2-yr., T., No. 1	\$25.00	\$200.00
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CORNUS FLORIDA , seedlings, above grafting size	15.00	125.00
grafting and budding size	6.00	45.00
below grafting size	4.00	25.00
2-yr., T., 18 to 24 ins.	25.00	200.00
2-yr., T., 24 to 36 ins.	45.00	350.00
CYDONIA JAPONICA , seedlings, 1-yr., 10 to 14 ins.	5.00	40.00
1-yr., 15 to 21 ins.	7.50	60.00

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BOULEVARD NURSERIES

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- Quality Nursery Stock
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- Root-Thru Plant Pots

TAXUS

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Truckloads only, no boxing.

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BABYLON, L. I., N. Y.

BILL SMART JOINS SHENANDOAH NURSERIES

William J. Smart severed his connections with the D. Hill Nursery Co., Dundee, Ill., February 1. He had been associated with the firm since 1922. As representative of the Shenandoah Nurseries, Shenandoah, Ia., he will shortly cover the western states for that organization.

In charge of plans for the convention train of the American Association of Nurserymen, which will make a circle tour through the north-west en route to Los Angeles, Calif., for the trade meeting next July, Mr. Smart has announced that all available space on the special train has been sold. Nurserymen who find it necessary to communicate with Mr. Smart concerning reservations that have been made should address him in care of the Shenandoah Nurseries, at Shenandoah. His present plans are to take up residence in the west.

CONTAINER PRODUCTION

[Continued from page 48]

up well for three seasons. Hand watering was thought to be the best method.

Question and Answer Session

After these brief remarks from the members of the panel, Mr. Turner asked for questions from the audience. Among the questions and the replies given were the following:

Q. When should pyracanthas be pruned?

A. Monthly pinchings result in compact pyracantha plants.

Q. What soil mixture should be used for pyracanthas?

A. A mixture of one-third loam, one-third peat and one-third sand or grit is satisfactory.

Q. What makes the best base for the containers?

A. Tests were run using sand, wood shavings, pea gravel and a check. Pea gravel was the most satisfactory base. Wood shavings seemed to encourage root growth out through the drainage holes.

Q. Can aluminum paint be used for protecting containers?

A. Aluminum paint may do a fair job of rust prevention, but it would probably be much more expensive than asphalt. One gallon of asphalt, costing about 23 cents, will cover about 20 4-gallon metal containers.

Q. Is winter protection necessary for all container-grown stock?

A. Many of the hardier shrubs can survive without winter protection. In the Ohio State University winter protection tests the following plant

WILMAT HOLLY LINERS

For spring delivery. Well-established for bedding in May. 3-in. pots.

English Hollies

	Per 100
Altaclarensis	\$55.00
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Cornuta , male and female, hardy zone	45.00
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Arden	45.00
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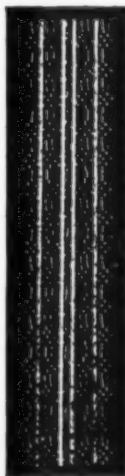
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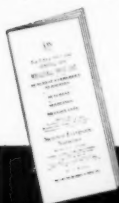
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AMERICAN RED PINE



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WHITE SPRUCE

types survived 100 per cent: Japanese kerria, Hetz juniper, Japanese honeysuckle, Oregon hollygrape, Vicary privet, Armstrong juniper, Taxus cuspidata, slender deutzia and showy jasmine.

Transplanting

Q. Does trouble result from transplanting container-grown plants as a result of their weak, unnatural root system?

A. Container-grown stock does not usually have a weak root system. The opposite is true, and even hard-to-move plants can be planted with confidence when using container stock.

Q. Can one plant the can and all, if it is perforated?

A. Leaving the container intact when planting is not a good practice. There is evidence that before the container rusts away the roots of the plant will become pot-bound, and in later years root girdling will develop.

Q. Can 1½ to 2-inch shade trees which are grown in half an oil drum be safely planted out at any time during the summer?

A. There is no apparent reason why this cannot be done. Good results have been experienced with summer planting of shade trees grown in bushel baskets.

Q. How often must one water container stock?

A. The frequency of watering depends on the weather and the plant. In hot, sunny weather many plants require daily watering. Forsythia may dry out to the point of leaf wilt without apparent harmful effects, whereas cotoneaster leaves will brown and drop after such wilting.

Q. Can one man water an acre of container stock by hand in one day?

A. No.

Q. Would it not be cheaper to use a tar paper pot than a metal container?

A. Tar paper pots are about 2 cents cheaper, but metal containers are much easier to handle. Tar paper pots must be handled by the seam to prevent tearing, and a man can carry only one in each hand. Metal containers can be picked up safely, and a man can easily carry two in each hand.

Q. What is the best overwintering method?

A. Results show equally satisfactory protection with ground corn cobs or sawdust. Other good mulch materials will probably do just as well.

Q. Is it necessary to remove mulch in the spring?

A. Mulch materials should be removed as soon as the danger of

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TEUCRIUM CHAMAEDRYS

	Per 100	Per 1000
No. 1 grade	\$18.00	\$150.00
No. 2 grade	15.00	120.00
No. 3 grade	12.00	100.00
Rooted cuttings	5.00	45.00

Write for complete trade list.

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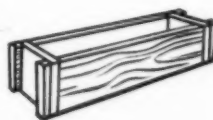
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Azalea amoena (Alanwold White). Very hardy, evergreen foliage, which turns a rich bronze in winter. Semidouble purple flowers.
4 to 6 ins. **\$15.00** per 100

Azalea hinodegiri. Brilliant red. 2-yr., T., 3 to 6 ins., br. **\$15.00** per 100

Azalea Japonica. Very hardy, wide range of colors, red, yellow, pink, etc. Deciduous.
6 to 8 ins., T. **\$25.00** per 100

Azalea kaempferi (Torch Azalea). Japanese seed. Tall-growing, large red flowers in profusion, blooms when evergreen types fall. Deciduous.
4 to 6 ins., T. **\$15.00** per 100

Azalea kurume. Gives a great variety of colors and types, from choice whites to orchids, deepest pinks and reds.
2-yr., T., 4 to 8 ins. **\$15.00** per 100

Azalea poukhanensis. Large orchid flowers, which rarely winterkill. Deciduous.
4 to 6 ins., T. **\$15.00** per 100
6 to 8 ins., T. **\$25.00** per 100
Each plant carries a nice ball of soil.

Azalea schlippenbachii. Considered by many the best of all. Very large pink flowers and leaves which turn pink in fall. Deciduous.
4 to 6 ins., TT. **\$25.00** per 100

Azalea Alanwold. White, similar to, but much harder than *Azalea indica alba*, large white flowers, with pink blush in throat, good evergreen foliage.
4 to 8 ins., T. **\$15.00** per 100

ILEX CRENATA CONVEXA

(Ilex Bullata)

Owing to our unusual success in propagating this desirable item, we offer it at a very low price. Over 150,000 in stock. It is a very choice, very hardy, low-growing evergreen, with shiny, dark green, convex, boxwood-like leaves. Grows fast into money, up to 2 feet, and there slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than Yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect, low hedge.

Each
6 to 8 ins., 2-yr., T. **15c**
8 to 10 ins., 2-yr., T. **20c**

PIERIS JAPONICA

Each
4 to 6 ins., T. **15c**
6 to 8 ins., T. **20c**

CHINESE MAGNOLIAS

Soulangeana, pink
Soulangeana nigra, dark purplish-pink
Rustica rubra, pink
Alba superba, white
Pink superba, pink
Lennel, good, pink
Stellata (Star Magnolia), semidouble, pure white
Alexandria, large, late pink
All 2-yr., 12 to 18 ins. ALL ON OWN ROOTS, 75c each. Minimum order, 5 of one kind.

SEND FOR LIST OF
UNUSUAL PLANTS

ALANWOLD NURSERY

NESHAMINY, Bucks Co., PA.

freezing is past. Plants left covered tend to produce numerous roots outside the container, and thus the primary advantage of container stock is defeated.
Bryson L. James

NEW ENGLAND PROGRAM

[Continued from page 11]

sented. One award went to the Napier Co., Meriden, Conn., for landscaping that had been carried out by the Millane Nurseries, Cromwell, Conn. The second winner was the Statler hotel, Hartford, Conn., where the work was carried out by Peter Cascio, West Hartford, Conn. Photographs of the presentations are reproduced on these pages.

Wednesday was the day given to the educational program, with Dick Van Heiningen moderator. With good weather, this day brought an increased attendance. For the first hour, a plant identification contest was held, the judges being Edward Pagliarini, Warwick Nurseries, and Raymond Griffin, Griffin's Nursery, Southwick, Mass.

Speaking first on the morning program, George Tuoti discussed "Practical Landscape Design for Period, Modern and Ranch-style Houses." Mr. Tuoti declared that the main objective in residential landscape design work is to produce a plan that considers intelligently, artistically and individually (1) the architectural style of the home and its environment, (2) the soil and its requirements as related to plant growth and (3) the needs of the occupants and their personal tastes. Such a responsibility calls for a specific clarity of thought and unusual ingenuity of design, said the speaker.

"Rewarding Profession"

The creation of beauty through the use of plant materials to give color, texture contrasts and form and the development of an ever-changing, growing, living design make landscape work an especially rewarding profession, he declared. After his comments, Mr. Tuoti showed before-and-after pictures of planting work, and these were followed by a discussion period.

Jack Hill, of the D. Hill Nursery Co., Dundee, Ill., next addressed the group on the subject, "The Growing and Handling of Nursery Stock in Cans."

In the afternoon, Charles Hess, Jr., Cornell University extension service, Ithaca, N. Y., talked on "Mist Propagation of Nursery Stock." Dr. W. H. Camp, head, department of botany, University of

3000 HYBRID RHODODENDRONS roseum elegans

4 yrs. old, bushy, up to 24 ins. and budding. Very highest quality.

NONE BETTER ANYWHERE

Come and see for yourself.

PARMENTIER'S ROSES

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BAYPORT, L. I., N. Y.

Phone: Bayport 8-0811

TWO-YEAR GRADED SEEDLINGS

Per 100 Per 1000

Scotch Pine
3 to 5 ins. **\$2.50** **\$12.50**
(Larger sizes sold out.)

Austrian Pine
3 to 5 ins. **3.50** **20.00**

Norway Spruce
3 to 6 ins. **3.50** **20.00**

Colorado Blue Spruce
2 to 3 ins. **2.50** **12.50**
3 to 5 ins. **3.50** **22.00**

For less than 500 plants add 10% for postage. Minimum order \$5.00.

GORTON'S NURSERY

R. D. No. 1 HARBORCREEK, PA.

AZALEA

2-yr., bedded, TT.

MOLLIS, seedlings
\$25.00 per 100; **\$225.00** per 1000
MUCRONULATA, seedlings
\$30.00 per 100; **\$275.00** per 1000

KINGWOOD NURSERIES
MENTOR, O.

VARIEGATED WEIGELA CUTTINGS

Weigela Variegata Nana

Mature shrubs make attractive container stock for sales lots. Heavy, outdoor frame-grown. Completely dormant.

\$12.00 per 100 **\$100.00** per 1000
BEARDSLEE NURSERY **PERRY, O.**

NOW! Half a ton more tractor

for all-job traction and stamina!



Exclusive IH Hydra-Touch system lets you use front and rear-mounted equipment individually or *both together*. Above, McCormick® hydraulic loader in combination with Fast-Hitch grader and back-fill blade.



Strength and traction for heavy-duty service! Here's the International 300 Utility with heavy-duty, industrial-type loader—capacity to help you move dirt faster on landscaping contracts.

...the NEW International® 300 UTILITY

Here's the new utility tractor that leads its field with up to 1,000 pounds greater built-in weight for strength and traction. You get up to 35 per cent stronger front-end construction, powerful all-tractor engine that delivers 39.5 hp at the drawbar, stronger chassis, and more rugged power train to keep you on the job and cut costs.

10 speeds forward with optional Torque Amplifier drive—you can change speed and increase pull-power up to 45 per cent *on the go* without shifting gears. Exclusive Fast-Hitch lets you hitch and switch rear-mounted equipment in seconds—just Back . . . **HITCH!** . . . and Go!

Your IH Dealer will demonstrate—look in the classified, phone today! Or, write International Harvester Company, Dept. AN-3, P. O. Box 7333, Chicago 80, Ill., for free folder.



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NORTHERN-GROWN STOCK

LANDSCAPE-SIZE SHRUBS		
<i>Clethra alnifolia</i>	Per 10	Per 100
3 to 4 ft., clumps	\$ 8.00	\$ 70.00
4 to 5 ft., clumps	15.00	125.00
<i>Ilex verticillata</i>		
2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	7.00	60.00
<i>Viburnum cassinoides</i>		
2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	8.00	70.00
<i>Viburnum dentatum</i>		
2 to 3 ft., clumps	5.00	40.00
3 to 4 ft., clumps	7.00	60.00

SWAMP RED MAPLES—SUGAR MAPLES

Price Each Per 10 100		
<i>Acer rubrum</i> and <i>Acer saccharum</i>		
8 to 10 ft., 3/4 to 1-in. cal.	\$2.50	\$2.00
10 to 12 ft., 1 to 1 1/4-in. cal.	3.00	2.50
10 to 14 ft., 1 1/4 to 1 1/2-in. cal.	4.00	3.50
12 to 15 ft., 1 1/2 to 1 3/4-in. cal.	6.00	5.00

CLUMP BIRCH

	Per 10	Per 100
<i>Paper Birch</i>		
4 to 6 ft., 3 stems and up	\$30.00	.....
6 to 8 ft., 3 stems and up	40.00	.....
<i>Gray Birch</i>		
4 to 6 ft., 3 stems and up	25.00	\$200.00
6 to 8 ft., 3 stems and up	35.00	250.00
8 to 10 ft., 3 stems and up	50.00	400.00

All stock is first-quality collected material. Send for complete wholesale list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens. We do not have Japanese beetle.

ISAAC LANGLEY WILLIAMS

P. O. Box 352

EXETER, N. H.

Azalea mollis,

Orange and red, 4-year, transplanted seedlings, 6 to 10 ins. \$0.45

Cotoneaster dielsiana, bare-root, 18 to 24 ins.75*Cotoneaster divaricata*, bare-root, 18 to 24 ins.75*Thuja occidentalis pyramidalis*, B&B, 3 to 4 ft. 2.50

Viburnum carlesii

2-year seedlings, transplanted, 12 to 18 ins.75

2-year grafts, transplanted, 18 to 24 ins. 1.25

4-year grafts, twice transplanted, B&B, 18 to 24 ins. 1.75

4-year grafts, twice transplanted, B&B, 2 to 3 ft. 2.00

THE RHODE ISLAND NURSERIES

NEWPORT, R. I.

CHRISTMAS TREE

Seedlings—Transplants

Pine, Spruce and Fir

Colorado Blue Spruce, good color, 5 to 12 ins., 500 or more, only 6c each.

Write for our new spring prices now.

ECCLES NURSERIES

Box 65-A

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DEL-MAR-VA NURSERIES

Growers of Quality
Taxus, Ilex and other Ornamentals.
Ask for list.

DEL-MAR-VA NURSERIES
LINCOLN, DEL.

Phone: Milford, Delaware 4445

QUALITY MERCHANDISE AT REASONABLE PRICES

VANDERBROOK NURSERIES, INC.

MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

LILACS ON OWN ROOTS

Leading varieties. All sizes, 2 to 8 ft.
Write for list. Inspection invited.

SAMUEL FRASER NURSERY

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GENESEO, N. Y.

Quality Nursery Stock

Since 1885

BROWN BROTHERS CO.
EAST ROCHESTER, N. Y.

AZALEAS AND HEDGE PLANTS

Splendid stock.
Write for Price List.

DIAMOND STATE NURSERIES
MILFORD, DEL.

Connecticut, Storrs, spoke on the subject, "The Botanist Looks at Horticultural Plants."

Business Session

The final day, February 9, started with a short executive meeting to elect to membership those whose applications had been received during the convention. Among the four voted on was the 200th member of the N. E. N. A. Reports that followed included that of the nominating committee, as previously given.

Dr. Carl Beckman, of the Rhode Island agricultural experiment station, Kingston, substituted for Dr. Theodore F. Kerr, of the University of Rhode Island, who had been scheduled to talk on "Nursery Insect Control Practices, Present and Future."

After introduction of the new officers, the meeting was adjourned for lunch, where the speaker was Elwin Shaw, talking on "The Magic of Laughter."

A note of sadness at the gathering was given by the announcement on Thursday of the death the preceding day of Charles Godin's father. Mr. Godin returned home Wednesday, and Dick Van Heiningen took over the direction of the Thursday sessions.

LANDSCAPE SELLING

[Concluded from page 16]

petition with many other salesmen, should be dynamic, willing to try new ideas. Common sense, imagination and appreciation for living plants can result in planning livable landscapes, and that is what should be sold — not exhibition plantings.

W. E. C.

VILLA PARK JUBILEE

The Villa Park Evergreen Co., Villa Park, Ill., is celebrating its 25th anniversary. The company, operated by Richard Zickman and his son, was founded as a mail-order business, shipping evergreens to customers in the United States, Canada and Hawaii. Since 1940 the company has also operated a sales ground for cash-and-carry trade.

TROPICAL foliage plants from Vosters Nurseries & Greenhouses, Inc., Secane, Pa., were used in the modern decor of the new headquarters of the Philadelphia National bank by Henkels & McCoy. Featured were *Ficus decora* and *Philodendron panduriforme*, among other specimen plants.

SCHROTH'S NURSERY

**It Pays to Plant
The Best**

SEEDLINGS

**Excellent Root
Systems, Hardy
ORDER NOW!**

Grown at High Altitude—In the Heart of the Original Pine Forests

WHOLESALE PRICES

Pine Seedlings

	Per 100	Per 1000
Scotch Pine, Riga		
2-0, 2 to 4 ins.	\$ 2.00	\$12.50
2-0, 4 to 8 ins.	4.00	25.00
American Red Pine		
2-0, 2 to 4 ins.	2.00	12.50
3-0, 4 to 8 ins.	3.00	20.00
*4-0, 14 to 24 ins.	15.00	....
Austrian Pine		
2-0, 4 to 8 ins.	4.00	25.00
3-0, 8 to 14 ins.	5.00	35.00
*4-0, 12 to 24 ins.	10.00	50.00
White Pine		
3-0, 3 to 6 ins.	3.00	20.00
3-0, 6 to 9 ins.	4.50	30.00
4-0, 8 to 16 ins.	8.00	....
Ponderosa Pine, 2-0, 3 to 5 ins.	2.00	10.00
Ponderosa Pine, 3-0, 5 to 10 ins.	3.00	15.00
Mugho Pine (True Dwarf Tyrolean), 2-0.	3.00	15.00
Mugho Pine (True Dwarf Tyrolean), 3-0, well-budded and branched	4.00	20.00

*Very good for windbreaks.

Fir Seedlings

Balsam Fir, 4-0, 9 to 14 ins.	10.00	80.00
Douglas Fir (Glaucia), 2-0, 3 to 5 ins.	3.50	20.00

Hemlock Seedlings

Canadian Hemlock		
2-0, 2 to 4 ins.	4.00	25.00
4-0, 10 to 20 ins.	10.00	80.00
Carolina Hemlock, 3-0, 4 to 8 ins.	6.00	35.00
Carolina Hemlock, 3-0, 8 to 14 ins.	10.00	80.00

Spruce Seedlings

	Per 100	Per 1000
Norway Spruce		
2-0, 3 to 5 ins.	\$ 2.00	\$ 20.00
2-0, 5 to 8 ins.	4.00	25.00
3-0, 6 to 12 ins.	5.00	30.00
4-0, 12 to 16 ins.	8.00	50.00
Colorado Blue Spruce, from select seed. Color very good.		
2-0, 2 to 4 ins.	3.00	15.00
3-0, 3 to 5 ins.	4.00	20.00
3-0, 5 to 9 ins.	5.00	35.00
White Spruce		
2-0, 3 to 5 ins.	3.00	20.00
3-0, 5 to 9 ins.	5.00	30.00
4-0, 9 to 16 ins.	8.00	50.00
Engelmann Spruce, 2-0, 2 to 4 ins.	3.00	15.00

Yew Seedlings (grown from seed)

	Per 100	Per 1000
Japanese (Taxus Cuspidata),		
3-0, 3 to 6 ins.	\$25.00	\$200.00

Juniper Seedlings

Juniper (Platte River),		
3-0, 10 to 18 ins.	15.00	80.00

Transplants

	Per 50	Per 100	Per 1000
Colorado Blue Spruce,			
2-2, 5 to 10 ins.	\$0.20 ea.	\$15.00	\$120.00
White Spruce,			
2-2, 9 to 16 ins. ....	.15 ea.	12.00	....

5% discount on 25,000 or more of combined species.

(Exclusive of seedlings \$15.00 per 1000 and under.)

We guarantee all stock represented herein as to size and quality, or your money cheerfully refunded.

The name SCHROTH stands for the best. Your order will convince you. Make a Christmas tree planting this season. Scotch is the best bet. Do not delay. Send for complete listing and terms.

All stock offered subject to prior sale.

SCHROTH'S NURSERY

INDIANA, PA.

West Virginia Discusses Christmas Tree Growing

By Al Peters

The 17th annual winter meeting of the West Virginia Nurserymen's Association was held February 2 and 3 at the Ruffner hotel, Charleston, W. Va. The opening day's activities consisted of registration and an informal visit to the local sales and display grounds of Conner & Amos, Inc.

A banquet for member nurserymen and their guests was held Thursday evening, February 2. The highlight of the evening was a brief address by the recently appointed West Virginia state commissioner of agriculture, J. T. Johnson. Mr. Johnson expressed his desire to work with the nurseries in their efforts to become an even greater industry in the state. The evening's entertainment was provided by a local magician.

Christmas Tree Growing

Friday's morning session had as a theme "Christmas Trees." The first speaker on the program was H. Philip Berthy, extension forester of West Virginia university. In his talk, "The Production of Christmas Trees," he told of the various species most desirable for planting under West Virginia conditions. Mr. Berthy also discussed at length the practicability of pruning Christmas trees and provided complete instructions as to the time of year and manner in which it should be performed.

Marvin Snyder, chief chemist, West Virginia department of agriculture, then spoke on, "Soil and Sites Suitable for Christmas Tree Plantations." Mr. Snyder was careful to point out that while the plantings need not be limited to the poorest soils, they are adaptable to sites of lower than average fertility.

State Industry Growing

The final speaker for this part of the program was Roger Pease, assistant agricultural economist at West Virginia University. His topic was "The Trends in the Christmas Tree Business." Mr. Pease pointed out that while at present the industry is rapidly increasing, not only in number of trees produced, but also in the number of growers, in time this change will level off. Mr. Pease expressed the opinion that West Virginia would, in the near future, pro-

duce not only the bulk of all Christmas trees sold in the state, but also a great number for sale in neighboring states.

After a short recess, Al Peters, Charleston, president of the West Virginia Nurserymen's Association, introduced Dr. Richard P. White, executive vice-president of the American Association of Nurserymen, Washington, D. C. Dr. White delivered an interesting and timely address on the wage-hour law and how it applies to the nursery industry.

A luncheon meeting of the West Virginia chapter of the A. A. N. was held in the Rose room of the Ruffner hotel. John Young, Young Nurseries, Bickmore, presided.

Plan Summer Meeting

In the afternoon, the chairman called a short business meeting at which plans for the summer meeting

of the group at Oglebay park, Wheeling, were discussed. Hosts for the conclave will be all member nurseries in the immediate area.

A panel discussion concerning the propagation, production and marketing of nursery stock climaxed the day's events. Panel members were Milton Lycan, Sandy Valley Nursery, Fort Gay; Atlee Connor, Connor & Amos, Inc., Charleston, and Norman Cole, Cole Nurseries, Bluefield.

A scheduled tour of the Green Tree garden center and the nursery of Conner & Amos, Inc., was called off due to the persistent rain.

LONG ISLAND SCHOOL

[Continued from page 12]

trations on landscape plants that deserve more recognition.

The hardy silk tree, *Albizzia julibrissin*, and its pink form, were first shown, and it was mentioned that although it is an interesting, colorful tree it should not be grown north of Long Island or in any great quantity by local nurserymen.

Abelia and *aucuba* were next illustrated. *Abelia* has about reached its northern range of hardiness on Long Island, and it is questionable if

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Adams Nursery, Inc.
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Maxwell, Bowden & Rice, Inc.
A. N. Pierson, Inc.
Sunny Border, Inc.
Verkade's Nurseries

ORNAMENTAL EVERGREENS

Trees and Shrubs

BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

EVERGREENS

300 acres of choice Evergreens
ready for immediate resale

Write for list.

GARDNER'S NURSERIES, Inc.
ROCKY HILL, CONN.

LINING-OUT STOCK

	Per 100	Per 1000
ILEX CRENATA		
seedling-grown, 4-yr., XX,		
field	\$50.00	\$450.00
seedling-grown, 3-yr., X, beds	12.00	90.00
ILEX CRENATA MICROPHYLLA		
seedling-grown, 3-yr., X, beds	12.00	90.00
ILEX CRENATA CONVEXA		
2-yr., X, beds	30.00	250.00
PIERIS JAPONICA		
3-yr., XX	45.00	420.00

Minimum mail order \$20.00.

BROOKFIELD GARDENS

U. S. Rt. 46 DELAWARE, N. J.

QUALITY STOCK GROWN BY US

Roses, Azaleas, Evergreens, California Privet, Green Barberry, Red Barberry (fine strain).

Seedlings and transplants.

DANEGGER'S HI-WAY NURSERY, INC.
P. O. Box 336 MILFORD, DEL.



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Safeguard

**PRECIOUS, TENDER
PLANT AND SHRUBBERY
ROOT SURVIVAL
IN SHIPMENT**

wrap to Protect with

**Thilco
NURSERY
WRAPS**

Now — scientific wrapper protection is yours with Thilco Nursery Wraps. Designed just for you, they come in a wide selection of grades and types of waterproofness, flexibility and strength to meet your every need and requirement. Whether asphalt, wax, polyethylene or foil treated, Thilco Nursery Wraps are the very finest obtainable . . . anywhere.

Tailor-Made Packaging Papers — Special wraps are also available from Thilco. They can be furnished plain or printed with specific directions for the care and raising of the packaged plant.

Specialty Bags for Unit Packaging — Are also a part of the wide Thilco line. Our bag department is at your service to supply an almost limitless variety of bags in different sizes, papers, weights, duplex papers and applications. They may be punched for ventilation, tin-tied for ease of handling and print-decorated with your trade-mark or sales message.

Decorated Roll or Sheet Wrappings — serve a 101 odd packaging jobs for the florist or nurseryman. Print decorated, they advertise as they protect. Many serve dual roles as wrappers and as a "good will" protective flooring sheet when transferring shrubs and plants to the customer's car.

Plus "PERSONALIZED" IDENTIFICATION
for just a fraction of a cent per unit!

Here's "merchandising appeal" second to none. Any Thilco Nursery Wraps you choose can be furnished print-decorated with your name, trade-mark or any message you wish. The cost is extremely low. For example, the wrapper used by Bobbink & Atkins illustrated above was decorated at a cost of only 1/6¢ per 24"x36" sheet — adequate in size for most wrapping needs. Take advantage of the prestige value, product recognition and attractiveness this decorating provides — Order your wraps "print-decorated".



NEW YORK • CHICAGO • DETROIT • MINNEAPOLIS • CINCINNATI

FIELD-GROWN LINING-OUT STOCK

All stock grown in open field beds.

	Each	Each
	per	per
	100	1000
<i>Azalea</i> , Ghent (pontica).		
2 to 5 ins., 2-yr. T.	\$0.20	
5 to 8 ins., 3-yr. T.	.25	\$0.20
8 to 10 ins., 4-yr. T.	.45	.40
<i>Azalea</i> kaempferi.		
2-yr. T., field bed	.28	.24
<i>Azalea mollis</i> (Chinese Azalea).		
5 to 8 ins., 2-yr. T.	.25	.20
8 to 10 ins., 3-yr. T.	.35	.30
10 to 12 ins., 4-yr. T.	.65	..
<i>Azalea schlippenbachii</i> (Royal Azalea).		
2-yr. field bed, T.	.28	.25
3-yr. field bed, T.	.35	.32
<i>Buxus sempervirens</i> weileri.		
8 to 8 ins., 2-yr. T.	.35	.32
8 to 10 ins., 3-yr. T.	.45	.40
10 to 12 ins., 4-yr. T.	.65	..
<i>Chamaecyparis lawsoniana</i> pendula.		
10 to 15 ins., 3-yr. T.	.45	..
<i>Chamaecyparis filiformis</i> .		
8 to 12 ins., 2-yr. T.	.35	..
<i>Chamaecyparis plumosa</i> aurea.		
6 to 8 ins., 2-yr. T.	.35	.30
8 to 10 ins., 3-yr. T.	.40	.35
10 to 12 ins., 3-yr. T.	.50	.45
<i>Cotoneaster horizontalis</i> .		
6 to 8 ins., 3-yr.	.38	..
8 to 12 ins., 3-yr.	.45	..

	Each	Each
	per	per
	100	1000
<i>Euonymus fortunei</i> carrierei.		
5 to 10 ins., 2-yr. T.	\$0.30	\$0.25
10 to 15 ins., 3-yr. T.	.35	.30
<i>Euonymus fortunei</i> coloratus.		
6 to 10 ins., 2-yr. T.	.25	.20
<i>Euonymus fortunei</i> erectus.		
(Big-leaved Winter Creeper)		
8 to 10 ins., 2-yr. T.	.22	.18
10 to 12 ins., 2-yr. T.	.25	.20
12 to 15 ins., 3-yr. T.	.35	.30
15 to 18 ins., 4-yr. T.	.45	.40
<i>Euonymus patens</i> .		
10 to 15 ins., 3-yr. T.	.75	..
<i>Euonymus radicans</i> coloratus.		
(Small-leaved Winter Creeper).		
8 to 10 ins., 2-yr. T.	.22	.18
10 to 12 ins., 2-yr. T.	.25	.20
12 to 15 ins., 3-yr. T.	.35	.30
<i>Euonymus radicans</i> vegetus.		
6 to 8 ins., 1-yr. T.	.18	.16
8 to 10 ins., 2-yr. T.	.25	.20
10 to 12 ins., 2-yr. T.	.35	.30

<i>Ilex crenata</i> (Japanese Holly).		
6 to 8 ins., 1-yr. T.	\$0.25	\$0.20
8 to 10 ins., 2-yr. T.	.35	..
10 to 12 ins., 3-yr. T.	.45	..
<i>Ilex crenata</i> convexa (bullata).		
6 to 8 ins., 1-yr. T.	.25	.22
8 to 10 ins., 2-yr. T.	.38	.35
10 to 15 ins., 2-yr. T.	.55	.45

<i>Ilex crenata</i> halleri		
(Haller's Dwarf Holly).		
1-yr. field bed, T.	\$0.25	..
2-yr. field bed, T., bushy.	.40	..
<i>Ilex rotundifolia</i> (Round-leaved Holly).		
6 to 8 ins., 1-yr. T.	.25	\$0.22
8 to 10 ins., 2-yr. T.	.38	.35
10 to 12 ins., 3-yr. T.	.45	.40
12 to 15 ins., 3-yr. T.	.65	.55
<i>Juniper</i> , Andorra.		
8 to 10 ins., 2-yr. T.	.35	.30
10 to 12 ins., 3-yr. T.	.45	.40
12 to 15 ins., 3-yr. T.	.50	.45
<i>Juniperus canadensis</i> aurea.		
4 to 6 ins., 1-yr. T.	.25	..
6 to 8 ins., 2-yr. T.	.35	..
<i>Juniperus glauca</i> hetzli.		
8 to 10 ins., 2-yr. T.	.35	.30
10 to 12 ins., 2-yr. T.	.45	.38
12 to 15 ins., 3-yr. T.	.55	.45
15 to 18 ins., 3-yr. T.	.70	..
<i>Juniperus communis</i> hibernica fastigiata		
(Compact Irish).		
8 to 10 ins., 2-yr. T.	.35	.30
10 to 12 ins., 2-yr. T.	.38	.33
12 to 15 ins., 3-yr. T.	.45	.40
15 to 18 ins., 3-yr. T.	.55	.50

<i>Juniperus nitzleriana</i> compacta.		
(Nelson's variety. Gray-blue, grows compact. Shapes up quickly.)		
6 to 8 ins., 1-yr. T.	\$0.35	..
8 to 10 ins., 1-yr. T.	.45	..

<i>Juniperus striata</i> .		
4 to 8 ins., 1-yr. T.	\$0.35	\$0.32
<i>Koeberlinia paniculata</i> (Golden-Rain Tree).		
12 to 18 ins., 2-yr. T.	.22	.20
18 to 24 ins., 4-yr. T.	.30	..
<i>Larix europaea</i> (European Larch).		
15 to 18 ins., 3-yr. T.	.16	.12
18 to 24 ins., 4-yr. T.	.25	.18
2 to 3 ft., 4-yr. T.	.35	.28
<i>Leucothoe catesbaei</i> .		
6 to 8 ins., 2-yr. T.	.25	.20
8 to 10 ins., 3-yr. T.	.35	.30
10 to 12 ins., 3-yr. T.	.45	..
<i>Liquidambar styraciflua</i> (Sweet Gum).		
8 to 12 ins., 2-yr. T.	.15	.12
12 to 18 ins., 2-yr. T.	.20	.18
<i>Pieris floribunda</i> .		
3 to 6 ins., 2-yr. T.	.25	.20
6 to 10 ins., 2-yr. T.	.30	.25

<i>Pieris japonica</i> .		
6 to 8 ins., 2-yr. T.	\$0.28	\$0.25
8 to 10 ins., 2-yr. T.	.35	.30
8 to 12 ins., 3-yr. T.	.65	..
<i>Pinus mugo</i> .		
4 to 6 ins., 3-yr. T.	.18	.16
6 to 8 ins., 4-yr. T.	.22	.20
<i>Pyraecanthia coccinea</i> islandi.		
8 to 12 ins., 2-yr. T.	.32	.30
12 to 15 ins., 3-yr. T.	.45	..
<i>Rhododendron catawbiense</i> , purple-pink.		
2-yr. field bed, T.	.22	.20
<i>Rhododendron maximum</i> , light pink.		
2-yr. field bed, T.	.22	.20
<i>Rhododendron</i> Hybrids, seed out of red-blooming plants.		
2-yr. field bed, T.	.35	.32
3 to 5 ins., 3-yr. T.	.45	..
5 to 8 ins., 4-yr. T.	.55	..
(Sturdy center stems to multi-branched heads).		
<i>Rhus coccinea</i> (Smoke Tree).		
10 to 12 ins., 3-yr. T.	.18	.12
12 to 18 ins., 3-yr. T.	.25	.20
<i>Taxus cuspidata</i> .		
8 to 10 ins., 2-yr. T.	.35	..
10 to 15 ins., 3-yr. T.	.45	..
<i>Thuja occidentalis</i> douglasii aurea.		
6 to 8 ins., 2-yr. T.	.35	.32
6 to 10 ins., 2-yr. T.	.45	.42
<i>Thuja occidentalis</i> elegantissima lutea, golden tip over dark green foliage, nonshedding. Very pyramidal.		
6 to 8 ins., 2-yr. T.	.35	.30
8 to 10 ins., 3-yr. T.	.40	.35
10 to 12 ins., 3-yr. T.	.45	.40
12 to 15 ins., 4-yr. T.	.55	.50
<i>Thuja occidentalis</i> glabra (Woodward).		
8 to 10 ins., 2-yr. T.	.35	.30
10 to 12 ins., 3-yr. T.	.40	.35
<i>Thuja occidentalis</i> pyramidalis.		
12 to 15 ins., 3-yr. T.	.55	..
<i>Tsuga canadensis</i> (Hemlock).		
6 to 8 ins., 3-yr. T.	.25	.20
8 to 10 ins., 4-yr. T.	.35	.30
<i>Viburnum opulus</i> , red berries fail.		
10 to 18 ins., 3-yr. T.	.18	.12
18 to 24 ins., 4-yr. T.	.25	.20
<i>Viburnum opulus</i> nana (Dwarf Bush Cranberry).		
2-yr. field, T.	.30	.25
3-yr. field, T.	.40	..

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aucuba should be used in outdoor plantings, even on Long Island.

Some fine pictures were shown of the true dwarf box in the Longwood Gardens and those of Gunstan Hall, the latter of which were about 10 feet high and of even greater width. The list went on to include the blue Atlas cedar, cedar of Lebanon and deodar cedar.

Special emphasis was placed on the upright, or fastigate, form of ginkgo, and the illustration justified the recommendation. Others that presented possibilities were a yellow-fruited form of American holly; incense cedar, Libocedrus decurrens, with its narrow or columnar appearance; willow oak for street and lawn planting; dwarf sarcococca, Sarcococca hookeriana humilis; spreading English yew; scholar's tree, Sophora japonica, and tea viburnum, Viburnum setigerum.

Sterilizing Seedbeds

The associate county agent, James McFaul, talked on sterilizing nursery

seedbeds. The topic provoked many questions, since it was a problem of many of the nurserymen. Mr. McFaul said that steam sterilization is still about the best way of doing the job, even for small nurserymen, since portable steam generators can be rented.

Methyl bromide has also been tried successfully by Mr. McFaul in his experimental work. A pound of the chemical, usually costing about 75 cents, will sterilize about 100 square feet. Of course, the treated area must also be covered by a material such as polyethylene or vinyl cloth. Tarpaulin and canvas coverings are not advised, since they have too much porosity. Methyl bromide should be used when the soil temperature is at least 65 degrees Fahrenheit or higher. Soil should not be too dry or too wet when either methyl bromide or steam is used. Methyl bromide is nonselective.

Vapam worked well farther south when it was drenched on the beds, but is not recommended as yet for

Long Island, although a trial on a small scale might be considered.

Steam rakes are being used successfully, but they are not made by any manufacturer and must be constructed by the individual user.

Robert Trees, a graduate student of Cornell University, reported on a new pesticide, chlorothion, which will be on the market in 1956. Chlorothion is similar to malathion, in that it controls the same insects and has about the same toxicity to humans.

Antibiotics

Dr. Donald S. Welch, department of plant pathology, Cornell University, spoke on recent developments in the field of antibiotics for tree and shrub disease control. There are three general types of antibiotics: (1) Those for human and animal diseases; (2) those for animal feeds and feeding where there has resulted an increased growth rate of birds and animals, and (3) those for the control of plant diseases. The materials

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Per 100 Per 1000

Scotch Pine

2-yr., 2 to 4 ins.	\$ 2.00	\$10.00
2-yr., 4 to 8 ins.	4.00	20.00
3-yr., 6 to 10 ins.	7.00	35.00
3-yr., 10 to 16 ins.	9.00	45.00

Scotch Pine (Riga)

2-yr., 2 to 4 ins.	3.00	15.00
2-yr., 4 to 8 ins.	5.00	25.00

Austrian Pine

2-yr., 3 to 5 ins.	4.00	20.00
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American Red Pine

2-yr., 2 to 4 ins.	3.00	15.00
3-yr., 4 to 6 ins.	5.00	25.00
3-yr., 6 to 12 ins.	6.00	30.00
4-yr., 12 to 18 ins.	8.00	40.00

Mugho Pine

3-yr., 2 to 5 ins.	4.00	20.00
4-yr., 4 to 7 ins.	7.00	35.00
4-yr., 6 to 12 ins.	10.00	50.00

SPRUCE

Norway Spruce

2-yr., 2 to 4 ins.	3.00	15.00
2-yr., 4 to 8 ins.	5.00	25.00

White Spruce

2-yr., 2 to 4 ins.	3.00	15.00
3-yr., 4 to 6 ins.	4.00	20.00
3-yr., 5 to 8 ins.	7.00	35.00

Blue Spruce

3-yr., 3 to 5 ins.	6.00	30.00
3-yr., 5 to 9 ins.	9.00	45.00
4-yr., 5 to 10 ins.	12.00	60.00

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Douglas Fir

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White Spruce

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originate in fungi and molds from which extracts are made.

Many materials have been found which could not be used for the purpose. Some products were tried on mice with often injurious results. There are numerous antibiotics in a backlog of research that can be drawn on to fight new diseases. Those that produce poor results in one disease may well be the favorable answer to another problem.

Antibiotics are different from other materials used in treatment, in that only small quantities are required. Often only 1/56th of an ounce is needed in 100 gallons of water. Antibiotics are usually sold in the form of a pill, but the costs run high, because of the amount of time, money and labor that has gone into research. The materials are absorbed by a plant through the roots, stems or leaves, and some are toxic to some plants, as evidenced in tests run on elms where the trees were killed. The most effective antibiotics are those that are highly selective and must be used for a specific disease.

One material that has produced good results is actidione, when it was used to control mildew and cherry leaf spot. Streptomycin did a good job in controlling fire blight on pear, apple, quince and cotoneaster. It should have a limited use and should not be applied when the temperature is below 65 degrees F. Neither should the applications be made when blossoms are wet.

One treatment of actidione on the galls of cedar apple rust when the galls show orange tendrils coming out was highly effective.

Continued research could well bring amazing results and, of course, offer the possibility of making plants immune to many present diseases.

The horticulturist of the Nassau county department of parks, Spencer Prentiss, gave the audience something to think about in his resume of the 1955 rhododendron propagation experiments conducted at the park. Polyethylene was used over concrete V-benches, where about 50 cuttings of each variety were inserted August 23. Heating cables had been installed in the bottom of the V-benches, so that a bottom heat of 70 degrees could be furnished.

Potted plants presented to the group showed growth results of two to four or five inches, depending on the variety. The polyethylene was gradually removed, beginning November 14, and a water soluble fertilizer, 15-30-15, was applied three times at weekly intervals.

The biggest problem encountered

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Acer palmatum atropurpureum

1-yr., 8 to 10 ins., grafts	\$ 75.00
1-yr., 10 to 12 ins., grafts	85.00
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1-yr., 18 to 24 ins., grafts	100.00
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Ilex opaca, our own introduction selected for its fruiting qualities.

1-yr., 8 to 10 ins., cuttings	40.00
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Catawbiense Boursault, lilac-rose Each

2-yr., 12 to 15 ins., B&B	\$1.75
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Catawbiense grandiflorum,

deep rose-lilac

2-yr., 12 to 15 ins., B&B	1.75
3-yr., 15 to 18 ins., B&B	2.25

Roseum elegans, rose-pink

2-yr., 12 to 15 ins., B&B	2.00
3-yr., 15 to 18 ins., B&B	2.50

Azalea Pontica (Hardy Ghent)

Coccinea speciosa, orange-red

Daviesi, white, very fragrant

Gloria Mundi, pure orange

Unique, orange-yellow

12 to 15 ins., B&B	2.00
15 to 18 ins., B&B	2.50

Juniperus

Pfitzeriana, 18 to 24 ins., B&B 2.50

Pyracantha

<i>Lalandi</i> , orange berry, 15 to 18 ins., pots	1.00
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Viburnum

Burkwoodi, fragrant

18 to 24 ins., B&B	1.25
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Loads of orange berries.

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(Rhodotypos scandens)

Light green foliage;

jet-black berries.

6 to 12 ins., S.	7.50	65.00
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18 to 24 ins., R.P....	15.00	125.00
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Glossy leaves, large red berries.

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Viburnum dentatum

(Arrowwood)

6 to 9 ins., S.	7.50	65.00
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Euonymus patens

Per 100

12 to 24 ins., T.	\$50.00
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Mahonia aquifolium

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3-yr., field	45.00	425.00

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MENTOR, O.

was in reducing the greenhouse air temperature from over 80 to 70 degrees F. It was accomplished by lowering the ceiling height with a cheesecloth canopy and installing plastic lawn irrigating hose outside the greenhouse side vents so the inside air could be cooled.

Business Outlook

A topic that appeared at first to be foreign to the interests of nurserymen proved to be one of the most interesting topics of the day. The business outlook for 1956, as presented by Dr. K. L. Robinson, of the department of agricultural economics, Cornell University, is promising, although the year will probably not be so productive or remunerative as was 1955.

Charts were used to show that the real peaks occurred during war periods, but there was no excessive collapse after World War II as there was after World War I. There was a small decline, but the period of the Korean War brought a new peak. It was expected that there might be a sharp decline after the Korean War, but again it did not occur, although there was some business decline.

As 1955 was the best year in the economic history of the country, it was asked if business expansion would go on at the same rate. The answer was that this is doubtful, but a better year than 1954 is expected. More automobiles were built in 1955, and people are now paying for them. There has been a cutback in production of cars at Detroit, and the policy will probably be followed in other places, which means a little less money available. The rate of marriage as compared to the building of new homes has dropped off, and it is expected that there will be a further decline in building. Longer-term loans are being made, or loans extended, a practice which was curtailed at one time. Dr. Robinson said that the building program may be different on Long Island, because of the continued need for new homes.

Expansion of automobile assembly facilities is already under way, which will aid in taking care of any leveling off that might occur. Additional public construction is also contemplated, which aids in eliminating employment problems.

Another question raised was about the possibility of the recurrence of a serious recession. Dr. Robinson said that this could and probably would be avoided, because we know more about depressions and can well prevent that which occurred in 1932. Government protection of bank savings and other protective

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2 to 3 ins.	3.00	25.00
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2 to 4 ins.	2.50	20.00
Ponderosa Pine		
2 to 5 ins.	2.50	20.00
Austrian Pine		
2 to 4 ins.	3.00	25.00
Norway Spruce		
2 to 5 ins.	3.00	25.00
American Arborvitae		
2 to 4 ins.	2.50	20.00
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2 to 5 ins.	3.50	30.00

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Balsam Fir		
6 to 8 ins.	12.00	100.00
American Arborvitae		
12 to 15 ins.	18.00	150.00
10 to 12 ins.	15.00	120.00
6 to 10 ins.	10.00	80.00
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Euonymus alatus compactus		
18 to 24 ins., B.R.	1.15	
18 to 24 ins., B&B	1.50	
24 to 30 ins., B.R.	1.40	
24 to 30 ins., B&B	1.75	
Euonymus carrierei erecta		
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15 to 18 ins., B&B75	

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24 to 30 ins., B&B	3.00
30 to 36 ins., B&B	3.50
36 to 42 ins., B&B	4.00

Juniperus chinensis pfitzeriana

15 to 18 ins., B&B	2.00
18 to 24 ins., B&B	2.50
24 to 30 ins., B&B	3.00
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Growers of Quality Evergreens
Lining-out Stock a Specialty

Write for Trade List

EVERGREEN NURSERY CO.

Established 1884 : STURGEON BAY, WIS.



Scarff's Nursery

FRUITS
ORNAMENTALS
LINING-OUT STOCK

Send for Complete Trade List.

NEW CARLISLE, O.

measures have given people a new confidence.

A short question and answer period conducted by Robert Brewster concluded the day's events and the annual meeting.

DELAWARE SHORT COURSE

[Concluded from page 19]

Inc., East Rutherford, N. J., gave many excellent hints on propagation. Of the factors which enter into the rooting of cuttings, Mr. Wells singled out timing and watering for special emphasis. The time of taking cuttings, which includes type and maturity of wood, often means the difference between success and failure. He cited an example with rhododendron, where the difference of a single week in the time of taking cuttings was critical.

The great advantage of mist for propagation is the control of water loss from plants, which makes possible successful rooting of a greater range of material.

Wounding cuttings at the base is a technique that aids rooting of many plants. Juniper, rhododendron and holly root better when lightly wounded than when unwounded. Hormones make for quicker rooting of many species. Selection of the proper hormone for the species and type of wood is essential. Tip cuttings of arborvitae root best with a lower concentration of hormones than cuttings of more mature wood. The reverse is true of Pfitzer juniper. The older wood requires stronger hormones than the softer cuttings for best rooting.

Merchandising

The retail nurserymen were given an excellent talk on merchandising by William Howe, Howe Nurseries, Pennington, N. J. Mr. Howe stressed the importance of selling service, quality and confidence with every sale. As long as this is done, department stores and other lower-price outlets increase future sales for nurserymen and have little effect on competition. Year-around advertising is important in contrast to occasional seasonal advertisements. The advertisements should appear about 10 days ahead of the time peak sales are desired on the item advertised, as there is a time-lag between the appearance of the advertisement and public response. Displays are an important feature in selling merchandise. Forsythia forced into flower for a display helps to sell forsythia plants that are still dormant. Mr. Howe also stressed the importance of trained sales personnel.

**sure!...you can plow...or spade and fork
your garden by hand and
hoe weeds all season**

**but the easier, better way is
with the low-cost...**

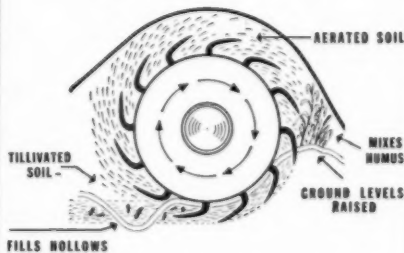


Ariens Jr.

ROTARY TILLER

"Working" your garden is easy the Ariens Jr. way. Till 12" wide up to 6" deep — have seedbed ready to plant in one operation! Comes the growing season — cultivate without hoeing, without backaches! 2 h.p. engine with unequalled power transfer from engine to tines... all steel "Paring Knife" tines... tip toe tiller clutch... all steel construction are just a few of many quality features! Ask your dealer for a free demonstration — you'll be glad you did!

WHAT ROTARY TILLAGE DOES FOR YOU



High speed tine rotation pulverizes, aerates, levels earth... kills weeds... mulches in organic matter and fertilizer... leaves seedbed ready for planting — all in one easy operation the Ariens rotary tillage way!

Ariens Yardster ROTARY TILLER

Here's your handiest tool for year 'round garden, lawn and yard care! Ariens Yardster rotary tiller has quick-hitch attachments for mowing lawns, spraying plants, clearing snow from walks, drives. Thousands in use coast to coast. See it soon!



See your dealer or write us today for free literature describing the Ariens Jr. or Ariens Yardster rotary tillers. Address inquiries to:

ARIENS CO.
141 Calumet St.
BRILLION, WIS.



"ARIENS... America's First Rotary Tillers... still America's Best"

EVERGREENS

- Pfitzer Juniper**, XX, field, branched, sheared.
 14 to 16 ins., spread \$0.50
 11 to 14 ins., spread40
 9 to 11 ins., spread30
 5,000 or 6,000 to sell; next year, very few. Bare-root Pfitzers transplant like weeds in early spring. Hardly any ever die. In 2 years you have a big one.
- Pfitzer Juniper**
 6 to 8 ins., bands14½
 8 to 10 ins., bands20
 Not necessary to unpack on arrival. They will keep in the crates indefinitely.
- Andorra Juniper**
 6 to 8 ins., bands 2-yr.14½
 Andorras never have sold well B&E. Pot these in tin cans and watch them go for low perches, windows and foundations. They will be hot after this item.
- Spreading Japanese Yew**
 2-yr., 6 to 8 ins., bands20
 Never had such big ones before.

SHRUBS

- Blue Spiraea**
 8 to 12 ins.03½
 Makes a blooming 3-ft. mound by August 15.
- Chinese Privet**, Wayside Gardens Strain
 6 to 12 ins.03½
 Evergreen in zone 5. Fast grower in tin cans.
- Forsythia Spring Glory**
 8 to 14 ins.04
 You can plant your shrubs 8 ins. apart in the row and they grow like weeds. All our shrubs have unbelievably heavy root systems due to too much progress in propagation.
- Regel's Privet**
 8 to 10 ins.03½
 This wide-spreading, beautifully leaved plant, when untrimmed, is covered with white flowers of heavenly fragrance. Unlike the rest of us, it blooms but once a year.
- Spiraea froebeli**
 4 to 6 ins.03½
 Tremendous mass of roots on these little plants. Wonderful red leaves in autumn. If trimmed only a little, it blooms all summer.
- BROAD-LEAVED**
Euonymus coloratus
 6 to 10 ins.03½
 This useful plant is easy to come by. At this price you can't lose.
- Pyracantha lalandi**
 5 to 6 ins.05
 A have-to have in cans or pots. It transplants reluctantly.

PERENNIALS

- Carnation Crimson King**05
 For No. 0 Cloveret pots this spring. Everblooming.
- Hardy Verbena**. Another good seller for pots.
 All prices are at 1000 rate on order totaling 300 or more. Less than 300, add 25¢ per plant.

McININCH GREENHOUSES
 ST. JOSEPH, MO.

PERENNIALS

- Nursery Grade and Liners
Lythrum Morden Gleam
Lythrum Morden Rose
Phlox subulata White Delight
Phlox subulata May Snow
Heuchera, selected red ..
Early-Flowering Mums
New Minnesota Mums, Wanda and Mesabi

Send for Complete List

PERKINS PLANTS **PERKINS BROS.**
 LEASE ST. PAUL 6, MINN.

VICARY PRIVET

- Lovely golden-leaved variety. Extremely adaptable for a striking border. Retains full golden color from spring to fall. Beautiful for rose bed borders. Should have full sun.
- Liners in 2-in. pots \$2.00 \$18.00 \$150.00
 Rooted cuttings, April delivery.
 \$18.00 per 100; \$80.00 per 1000.

BEARDSLEE NURSERY **PERRY, O.**

CANADIAN CONVENTION CLOSE

[Continued from page 18]

morning session with a series of pictures showing before-and-after aspects of work he had completed. He urged that other landscape men show pictures of their work at a session next year.

Trends

Discussion followed. From the remarks made it was difficult to classify any general trend. Landscape design appeared to be individual and to depend on the taste of the designer. Mentioned in the discussion was the fact that the homeowner's back yard offers new opportunities for landscaping, as outdoor living in the city is becoming more general. The trend is toward concentrated planting and landscaping the back yard more than the front.

A. B. Luke, Luke Bros. Nursery, Ltd., Hudson, Que., was chairman at the final afternoon session and introduced the first speaker, C. E. Robinson, who demonstrated the influence of the central mortgage and housing committee on nursery stock sales. Before showing pictures of plantings at some of the new construction jobs, he gave some statistics on the housing boom of the past few years and the amount of building that had been made possible through government aid. The central mortgage and housing corporation is a Crown agency, operating on funds borrowed from the government and providing loans for building, home ownership, rentals, home improvement, etc. During his talk, Mr. Luke also mentioned the scholarships that had been provided for town planning and spoke of the topsoil requirements when building.

Container-Grown Stock

James S. Wells, Bobbink Nurseries, Inc., East Rutherford, N. J., outlined the advantages and disadvantages of container-grown stock and endeavored to prove that the advantages were far greater than the disadvantages. Growing in containers eliminates waste and thereby increases profits. It also permits standardization in growing methods.

The last formal talk on the program was given by John McDonald, Lacombe Nurseries, Lacombe, Alta., who urged that all nurserymen take full advantage of the association.

During the C. A. N. convention other meetings were held. The past presidents' council met prior to the annual business meeting and discussed the organization of various in-

LINING-OUT STOCK

Per 100 Per 1000

- Alpine Currant**
 2-yr., pots \$0.25 \$0.20
 6 to 9 ins., T.22½ .20
- Deutzia lemoinei**
 1-yr. pots09 .08
 1-yr., 6 to 8 ins., T.12 .11
- Euonymus coloratus and E. radicans erecta**, at 10,000 rates.
- Forsythia Lynwood Gold**
 1-yr., bands20 .15
- Carpinus pyramidalis betulus**
 1-yr., T., grafts65 .60
 2-yr., T., grafts70 .65
- Japanese Red Maple**
 Pot grafts75 .70
 1-yr., T., grafts 1.00 .90
- Japanese Lilac**
 2-yr., pots15 .12½
- Mentor Barberry**
 1-yr., 6 to 8 ins., T.15 .12½
 1-yr., 8 to 12 ins., T.20 .17½
- Pyracantha pauciflora**
 1-yr., pots10 .09
 2-yr., pots12½ .11
- Regel's Privet**
 1-yr., 8 to 12 ins., T.07½ .07
 1-yr., 12 to 18 ins., T.09½ .08½
 (True strain, 10,000 rates quoted on request.)
- Spiraea prunifolia**
 1-yr., pots10 .09
 1-yr., T.12½ .11
- Symphoricarpos chenaultii**
 12 to 18 ins.04½ .04
 18 to 24 ins.05 .04½
- Thornless Locust**
 12 to 18 ins., S.05½ .05
 18 to 24 ins., S.06½ .06
- See catalog for evergreens, liners, grafts and finished stock.

Burton's Hill Top Nurseries

Casstown, Ohio

Office—Casstown, O.—2425

ARBORVITAE

Pyramidalis in sizes

From 2 to 4 ft.

Siberians in sizes

From 1½ to 2½ ft.

Excellent stock in quantity.

Let us quote you on your needs.

FILLMORE COUNTY NURSERY
 CANTON, MINN.

COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.
 ONARGA, ILL.

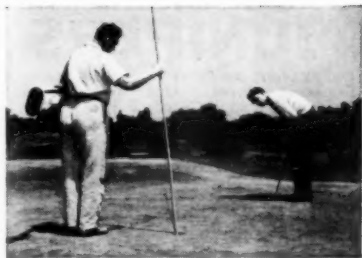
FORSYTHIA

Per 10 Per 100

- Lynwood Gold**, 2 to 3 ft. \$4.50 \$40.00
Spring Glory, 2 to 3 ft. 4.00 35.00

Write for quantity quotations.

KINGWOOD NURSERIES **MENTOR, O.**



Golf greens are hardier and greener, when fertilized with new BORDEN'S 38.



Leaves and blooms are larger, healthier when nursery plants are fed with BORDEN'S 38.



Park turf and ornamentals are greener when fertilized with BORDEN'S 38.

NEW!



Highway maintenance men grow healthier, greener turf with BORDEN'S 38.



SAVES TIME . . .
SAVES MONEY . . .
SAVES LABOR . . .

Now you can fertilize the *perfect* way . . . just "one shot" of new BORDEN'S 38 at preparation time provides a year's supply of nitrogen. The nitrogen is slowly released throughout the entire growing season at a uniform speed. There's no need to fertilize again all season. Your plants, ornamentals and turf are fed better and safer . . . and your job is cleaner, easier and more economical in the long run.

New BORDEN'S 38 is a revolutionary, non-burning fertilizer compound derived from urea-formaldehyde, and has a guaranteed analysis of 38% nitrogen. Yet, pound for pound—the cost of the nitrogen in BORDEN'S 38 costs no more than buying organic fertilizers containing only 3% to 7% nitrogen. You actually save on shipping costs . . . and on storage costs, because one bag replaces several bags of ordinary fertilizer in nitrogen content. On the job you save because BORDEN'S 38 won't leach or wash away . . . stays dry and free-flowing . . . saves trucking and handling.

Don't miss the opportunity to get better results while you save time, money and labor with new BORDEN'S 38. Write the address below for descriptive literature and the name of your nearest distributor.

THE **Borden** COMPANY • CHEMICAL DIVISION

350 Madison Avenue, New York 17, N. Y.



BROWN DEER LINERS

Spring, 1956

All stock is 4 and 5 years old, twice transplanted. Plants have been growing in 12-in. rows, 12 ins. apart, and have developed into really fine liners.

	Each	Each per 100	Each per 1000
Taxus hicksi			
6 to 9 ins. . . .	\$0.50		\$0.45
Juniperus hetzi			
6 to 9 ins. . . .	.45		.40
Juniperus Andorra			
6 to 9 ins. . . .	.45		.40
9 to 12 ins. . . .	.55		.50
Dark Green Arborvitae			
6 to 9 ins. . . .	.40		.35
9 to 12 ins. . . .	.45		.40
12 to 15 ins. . . .	.50		.45
15 to 18 ins. . . .	.65		.60
18 to 24 ins. . . .	.80		
Siberian Arborvitae			
6 to 9 ins. . . .	.40		.35
9 to 12 ins. . . .	.45		.40
12 to 15 ins. . . .	.50		.45

No packing charge.

BROWN DEER
NURSERIES

P. O. Box 1747 MILWAUKEE, WIS.

REMEMBER SHERMAN'S for . . .

Alpine Currant
Hydrangea P. G.
French Lilacs
Snowball
Shade Trees
Evergreens
Phlox
Peonies
Plum Seedlings
Lining-out Stock

Let us quote you on your requirements.

SHERMAN NURSERY CO.
CHARLES CITY, IA.

WE OFFER . . .

Our General Line of SMALL FRUIT PLANTS

Let us quote on your
requirements.

L. J. RAMBO'S WHOLESALE NURSERIES
Bridgman, Michigan

terests within the industry and their representation on the board of directors.

Ladies' Program

The ladies had a program, chaired by Mrs. Ruth Landon, Landon's Nursery & Greenhouses, Simcoe, Ont. Wednesday evening there was a get-acquainted time. Mrs. "Ted" Shuttleworth was in charge of registering the ladies. Thursday afternoon a short demonstration on corsage arranging was given and the ladies were invited to make their own corsages for the evening banquet. This event was followed by an afternoon tea. The final afternoon there was a card party.

The ninth annual short course of the Canadian Association of Nurserymen will be held at MacDonald College, Ste. Anne de Bellvue, Que., August 9 and 10.

Committee Chairmen

At the business session of the convention, the following committee chairmen, who are also a part of the directorate, were named: Convention, Elmer T. Banting, H. C. Downham Co., Ltd., Bowmanville, Ont.; cooperative buying, Arthur Fitzsimmons, Arthur Fitzsimmons Nurseries, Hamilton, Ont.; finance, Frank Fidler, H. C. Downham Nursery, Ltd., Strathroy, Ont.; membership, Fred Stensson, Sheridan Nurseries, Ltd., Sheridan, Ont.; nursery stock imports, Spencer McConnell Nursery Co., Port Burwell, Ont.; representative to Canadian Horticultural Council, Spencer McConnell; tariff and sales tax, Stanley C. Wellington, Pelham Nursery Co., Toronto, Ont., and Len Cullen, Weall & Cullen Nurseries, Willowdale, Ont.; trade practices, Charles Barron, Barron's Florist, Fonthill, Ont.; trade prices, F. Brady, the Caradoc Nursery Co., Strathroy, Ont.; plant patents, J. H. Eddie, H. M. Eddie & Sons, Ltd., Vancouver, B. C.; public works, L. Jensen; publicity and exhibitions, J. H. Shuttleworth, Little Tree Farm, London, Ont.; research, Donald McConnell, the McConnell Nursery Co., Port Burwell, Ont., and transportation, Carl Luck, Royalvale Nursery, Montreal, Que. L. C. K.

ROSCOE WHITING, 919 Hall street, Albion, Mich., recently started a retail nursery, growing perennials and small fruit trees.

GENESSEE VALLEY NURSERY, 114 Jefferson street, Wellsville, N. Y., is a forestry nursery recently started by B. C. Tullar and Conrad F. Church.

JUNIPERS

We offer the following upright Junipers, grafted on Red Cedar understock and well sheared for spring, 1956, delivery.

Juniperus virginiana

4 to 5 ft.
5 to 6 ft.
6 to 8 ft.

Juniperus virginiana burki, 2 to 3 ft.

Juniperus virginiana burki, 3 to 4 ft.

Juniperus virginiana canaerti

2 to 3 ft.
3 to 4 ft.
4 to 5 ft.

Juniperus virginiana glauca

2 to 3 ft.
3 to 4 ft.
4 to 5 ft.

Juniperus virginiana pyramidaliformis

2 to 3 ft.
3 to 4 ft.
4 to 5 ft.

Juniperus chinensis pfitzeriana

15 to 18 ins.
18 to 24 ins.
24 to 30 ins.

Juniperus pfitzeriana glauca

15 to 18 ins.
18 to 24 ins.
24 to 30 ins.
30 to 36 ins.

Juniperus sabinia

18 to 24 ins.
24 to 30 ins.
30 to 36 ins.

Please write for prices; we have them in large quantities.

THE KALLAY BROS. CO.
PAINESVILLE, OHIO

LINING-OUT STOCK

	Per 100	Per 1000
Vicary Privet		
rooted cuttings	\$10.00	\$ 80.00
2-in. rose pots	18.00	150.00
Forsythia Lynwood Gold		
rooted cuttings	10.00	80.00
2 1/4-in. pots	15.00	135.00
Teucrium chamaedrys		
rooted cuttings	5.00	45.00

EDWARD GILSON & SON NURSERY
U. S. Rt. 20 PERRY, O.

SMALL FRUIT PLANTS and VEGETABLE ROOTS

We grow for the whole-
sale trade only.

KRIEGER'S WHOLESALE NURSERY
BRIDGMAN, MICH.



TAXUS

is our specialty.
Bed stock—Liners
Finished—Specimen.
Send for List

EAGLE CREEK NURSERY CO., NEW AUGUSTA, IND.

HY-GRO—the largest selling Soluble Plant Food in Florida is now going into nation-wide distribution! We know trying beats talking! So, this is our offer—

23% OFF

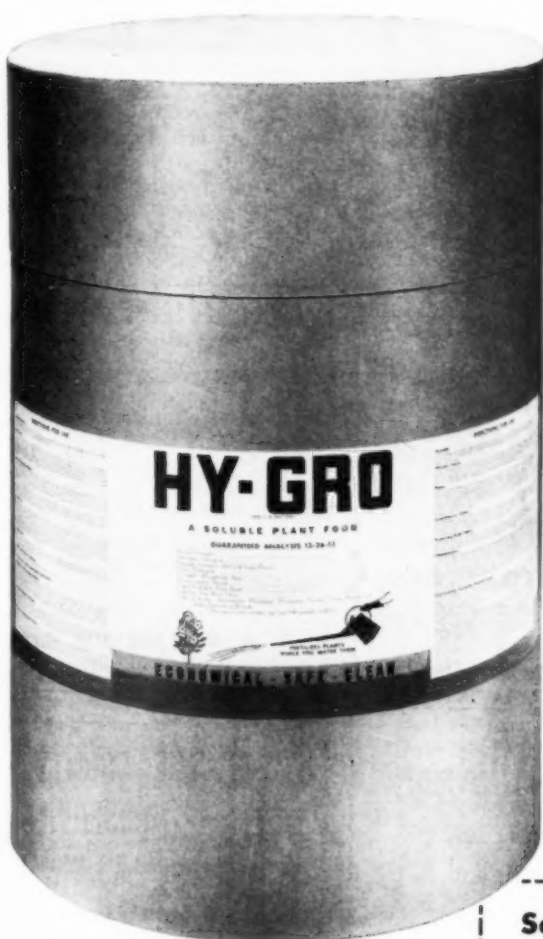
on a 100-lb. drum!

\$20

Jobber's Regular Price, \$26

Limit: 1 to a customer

Florida nurserymen are no different from you. They want a plant food that will do the best job for the least money. They've tested lots of them. **HY-GRO IS THEIR FIRST CHOICE!** Has been for years! Simply because HY-GRO has proved 10 times more effective than ordinary plant food. Now we're branching out. We know trying beats talking. So we offer you a 100-lb. drum at 23% off regular price. You save \$6.00 on the drum. But more important, it'll open your eyes to the most effective, best-producing soluble plant food a nurseryman ever had. Fill out and mail us the coupon below—now!



13-26-13
plus secondary elements

Hundreds of professional growers in Florida can tell you HY-GRO is 10 times more effective than ordinary plant food! Yes—10 times by actual tests!

Save 23%! Fill out this coupon now!

HY-GRO CORP., 1105 Maryland Ave., Baltimore 1, Md.

Please ship one 100-lb. drum of HY-GRO to:

FIRM NAME _____

ADDRESS _____

CITY _____ STATE _____

(Please check one): ORDERED BY _____

☐ Check enclosed. Send HY-GRO prepaid.

☐ Send COD. Ship F.O.B. Baltimore, Md.

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

MORE ABOUT CAMELLIAS

Several years ago I wrote a short article in this column on the camellias in Maryland. The article was prompted by the considerable number of my customers who had brought camellia plants from the south and were growing them successfully in their gardens. Since that time I have interested myself actively in the species and have observed it as much as I have been able. The following comments are, of course, for those interested in growing camellias in the temperate parts of the country. In the south and in California their culture is so wide that knowledge of how to grow them is extensive.

Shortly after my writing the earlier article, Dr. P. W. Zimmerman, Boyce Thompson Institute, Yonkers, N. Y., wrote me of his experimental planting there. He has had some of his plants for a good many years, since before the infamous winter of 1934. He encouraged me to begin growing them and offered some cutting wood, as well as information about the varieties he had found to be the hardiest. As a result, I am testing a number of varieties.

Sasanqua and Japonica

I started first with Camellia sasanqua varieties, but am now trying a number of Camellia japonica varieties. Dr. Zimmerman is interested in the japonica types. A year ago I bought from a nurseryman in South Carolina a shipment of about 30 varieties of both species, some standard varieties and some his own seedlings of unknown qualities, for test. I planted these in a frame, assuming I should lose some, but that those left would have a semblance of hardiness. The day after the plants arrived the temperature dropped to 15 degrees above zero and during the winter dropped to 4 degrees. To my surprise, none of the varieties were killed by the cold. I lost a few in transplanting them, but since I had duplicates that were thriving, it was probably not the cold that killed them. Last fall I replanted these to a permanent position in a new slat house. The winter to date has been colder than a year ago, with a 6-week period when the ground was frozen

8 to 10 inches deep. The plants show no injury as yet.

A year ago in spring, Monrovia Nurseries, Monrovia, Calif., sent several plants of their new Rosedale Beauty to test. These were planted in the border near my house and are not being protected. At the end of January they showed no cold injury. The little plants have flower buds and are only a foot high, and I am looking forward to seeing them flower.

At the recent Maryland Nurserymen's Association meeting, I talked to Henry Hohman, and he said he has been growing several camellia varieties for 20 years. The plants are quite hardy, although he has had some flowering difficulty on certain varieties. These comments are in line with Dr. Skinner's experience at the

National Arboretum, whose planting I visited last fall. There I saw both japonica and sasanqua plants from four to eight feet tall, growing well. Dr. Skinner commented that the plants are hardy, but the flowers sometimes freeze, and that it is wise to plant the early-flowering (fall-blooming) sasanqua and the late-flowering (spring-blooming) japonica.

I had one planting of five varieties of sasanqua, mostly three to four feet tall, that had been in place two years and gave them a good test for blooming in the past fall. The weather was not good, but the plants made an attractive showing. They began flowering about the end of October; shortly after that a cold snap killed all the open blooms, but did not hurt the unopened buds, which were a fine sight until late November, opening in a succession of blooms. It is only a guess, but I believe an opened flower can stand a temperature of about 30 degrees, and the unopened buds will stand a 20-degree temperature and still open in subsequent mild weather.

The more I observe the plants and

Specimen Landscape Materials Our Specialty . . . TAXUS



W. A. NATORP CO.

4400 READING ROAD
CINCINNATI 29, OHIO

Visit our nurseries when in Cincinnati

Chipman's RED RHUBARB

Large No. 1 Divisions
\$20.00 per 75

Cash with order; packing free.
Write for prices on larger quantities.

KEELER'S GARDENS
SIOUX FALLS, S. D.

AMERICA'S BEST SOURCE FOR HARDY PLANTS

Write for Trade List

MENTOR, OHIO

Wayside Gardens

TRANSPLANTS

4-yr., Northern-Grown
Per 100 Per 1000

Colorado Blue Spruce		
6 to 8 ins.	\$15.00	\$120.00
4 to 6 ins.	12.00	100.00
American Arborvitae		
12 to 15 ins.	18.00	150.00
10 to 12 ins.	15.00	120.00
8 to 10 ins.	10.00	80.00
Balsam Fir		
6 to 8 ins.	12.00	100.00
3-yr. Colorado Blue Spruce, 4 to 6 ins., and American Arborvitae, 4 to 8 ins., seedlings.		

Write for prices on 10,000 or more.

J. R. PALMER & SON
BLACKDUCK, MINN.

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LAKE COUNTY NURSERYMEN'S ASSN.

**P. O. Box 33
MENTOR, O.**

Write for Membership List

**BESTURF
BRAND**

**MEYER
Z-52 ZOYSIA**
Round Grass Plugs

"The World's Finest Lawn Grass"

grown and sold by
PLEASANT VIEW NURSERIES
(Turf Division)
Peters Road, Troy, Ohio, Phone 27094

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MARCH 1, 1956

77

for SPRING DELIVERY



NEKOOSA-EDWARDS PAPER COMPANY

NEPCO LAKE NURSERY

Telephone 4037

PORT EDWARDS, WISCONSIN

read about them and talk with others, the more mystified I am as to why they are not planted much more in Maryland than they have been. My observation is that the wood is harder than that of a number of plants grown regularly in the state. Camellias are obviously harder than wax privet, crape myrtle, Chinese holly and Magnolia grandiflora. This winter there is already some injury on wax privet, yet that plant is one of our stand-bys. One old-time gardener said that in her memory the crape myrtle had been killed to the ground three times in 50 years, yet there are plenty of 25 to 30-foot trees around. The fact that crape myrtle can be winter-killed has not discouraged the planting.

Why has the camellia not been planted? It certainly is a gorgeous plant. I did hear one unsubstantiated report that about a century ago there was an active camellia society in Baltimore and that some 60 varieties were grown. If this was the case, I wonder why camellias lost favor.

A year ago the Camellia Society for the Potomac Valley, which I have joined, was organized at Washington, D. C., and it now has more than 140 members who are actively interested in growing these plants;

	Per 100	Per 1000
European Larch (<i>Larix europaea</i>)		
2-yr., 8 to 12 ins., S.....	\$ 4.50	\$ 35.00
Douglas Fir (<i>Pseudotsuga Douglasi glauca</i>)		
2-yr., 8 to 12 ins., S.....	5.50	45.00
Austrian Pine (<i>Pinus nigra</i>), heavy grade		
2-yr., 4 to 6 ins., S.....	4.50	35.00
2-yr., 6 to 8 ins., S.....	5.00	40.00
4-yr., 8 to 12 ins., T.....	10.00	90.00
Mugho Pine (<i>Pinus mughus</i>)		
2-yr., 3 to 5 ins., S.....	4.50	35.00
Black Hills Spruce (<i>Picea densata</i>)		
4-yr., 4 to 6 ins., T.....	11.00	100.00
White Spruce (<i>Picea glauca</i>)		
4-yr., 6 to 8 ins., T.....	8.50	75.00

SPRING LINERS

	Per 100	Per 1000	Per 1000 in lots
Colorado Blue Spruce , X, 6 to 9 ins.	\$18.00		
Colorado Blue Spruce , X, 4 to 6 ins.	10.00	\$75.00	
Colorado Blue Spruce , 3-0, 5 to 10 ins....	10.00	50.00	\$47.50
* Colorado Blue Spruce , 3-0, 3 to 5 ins....	6.00	30.00	28.00
Black Hills Spruce , X, 8 to 12 ins.....	22.50		
Black Hills Spruce , X, 4 to 8 ins.....	15.00	90.00	
Black Hills Spruce , 3-0, 5 to 10 ins.....	7.50	35.00	33.00
Black Hills Spruce , 3-0, 3 to 5 ins.....	5.00	20.00	18.00
Taxus Cuspidata Capitata , X, 8 to 12 ins. (from seed, individually sheared).....	65.00		
Taxus Densiformis , X, 6 to 8 ins.....	50.00		
Douglas Fir , 3-0, 3 to 8 ins.....	7.50	35.00	33.00
Mugho Pine , 2-1, 3 to 5 ins.....	8.00		
Riga Scotch Pine , 2-0, 6 to 10 ins.....	10.00		
Riga Scotch Pine , 2-0, 4 to 8 ins.....	7.50		
Austrian Pine , 2-1, 4 to 8 ins.....	10.00		
* Austrian Pine , 2-0, 3 to 6 ins.....	5.00	22.50	21.00
White Birch , XX, 3 to 4 ft.....	75.00		

*Will quote on 50,000 or more.

MATTHEWS NURSERY

HARBOR SPRINGS, MICH.

Telephones 123, 48 or 732

QUALITY STOCK

Quercus palustris (Pin Oak)

2 to 3 ft.	\$0.50
3 to 4 ft., br.	.75
4 to 5 ft., br.	1.00
5 to 6 ft., br.	1.50
6 to 8 ft., br.	2.00
1 to 1 1/2-in. cal.	5.00

Pfitzer Juniper

15 to 18 ins.	2.00
18 to 24 ins.	2.50
24 to 30 ins.	3.00
30 to 36 ins.	3.50

English Privet, 3-yr., 2 to 3 ft., 20c each.
Samples on request.

Cornus florida (White Dogwood)

4 to 5 ft.	\$ 3.00
5 to 6 ft.	4.25
6 to 7 ft.	5.25
7 to 8 ft.	7.50
8 to 10 ft.	12.50

30% budded stock on all orders.

Amur River Privet

1-yr., 9 to 24 ins., 2 canes or more. Per 1000 \$35.00

Cornus sibirica

1-yr., 9 to 24 ins. 50.00

Lombardy Poplar

1-yr., 4 to 5 ft. Per 100 \$12.00

Ibodium Privet, 3-yr., 3 to 4 ft., 20c each.

15.00

Discounts on large orders.

PAUL'S NURSERY

Phone: 32161

R. D. 3, SHELBY, OHIO



Hardy Northern-Grown Stock at WHOLESALE

JEWELL NURSERIES, Inc.

Write for Price List.

Box 457, LAKE CITY, MINN.

in fact, Washington is really enthusiastic about camellias.

It is now obvious that camellias are going to be pushed much farther north than was hitherto thought wise. As a result, nurserymen who are growing camellias have an obligation to new customers. First, they should grow and sell the hardiest varieties, should test the new varieties before selling them and should avoid bringing in plants from the far south for direct resale, without at least growing them awhile.

Growing Requirements

Perhaps some of the tenderness of the camellia is due to its more or less exacting cultural requirements rather than sensitivity to cold. The plant grows well in peaty, slightly acid soil, as do many broad-leaved evergreens. The thick evergreen leaves are sensitive to drying, and as a result, they need heavy mulch and a light shade. Exposure to the cold, dry, northwest winds, as well as full, day-long exposure to the sun, should be avoided.

It is important, also, that nurserymen set the limitations in use of the plants in the north. The nurseryman should not only remind the customers of the plants' needs, but be sure to tell of occasional flowering disappointments. In landscape use of camellias, the grower must be careful not only to give them the correct cultural requirements, but to choose

TAXUS CUSPIDATA

12 to 15 ins., TT.
15 to 18 ins., TT.
18 to 24 ins., TT.
24 to 30 ins., TTT.

CASSINELLI'S GLENDALE NURSERIES, INC.
GLENDALE, Hamilton Co., OHIO

FOR THE NURSERY TRADE

Per 100 Per 1000

French Lilac
2-yr., 2 to 3 ft., tops. \$75.00 \$700.00

Boston Ivy
2-yr., No. 1, heavy. 25.00 230.00

Philadelphus virginialis
2 to 3 ft. 40.00 375.00

MOLNAR NURSERIES

R. F. D. 1, Narrows Rd.
PERRY, O.

LINING-OUT STOCK

Heavy well-grown potted plants.
Suitable for field planting.
Write for list

*THE Hollandia
Gardens*

SOUTH VIENNA, O.

ORNAMENTALS

TREES SHRUBS
EVERGREENS

Wholesale growers of a
general assortment for
the best landscape plantings.

BRYANT'S NURSERIES
Princeton, Illinois

EVERGREEN SEEDS

1955 Crop — Direct from Collector

20 years' experience collecting
for the large seed houses. Pinus
resinosa, Pinus strobus, Pinus rig-
ida, Pinus sylvestris, Pinus bank-
siana, Picea abies also Quercus
borealis.

IRON MOUNTAIN EVERGREEN CO.
IRON MOUNTAIN, MICH.

suitable plant locations. Camellias do best among other plants and should not stand out by themselves too much, although this past fall I saw a pink sasanqua, six feet high and covered with blooms, right in the middle of a lawn. C. sasanqua makes gorgeous hedges, but should be used to the leeward of a fence or an evergreen windbreak. The camellia also could be used to advantage in plantings that blend with the architectural features of the modern house.

The two fine species, C. sasanqua and C. japonica, give every indication that they will become handsome additions to the gardens of Maryland.

GARDEN CENTERS

[Continued from page 15]

trees, shrubs, vines, rosebushes, hedge plants, perennials and bulbs. Then try to get a line on the best-selling varieties. That will not be too difficult, because a comparatively few varieties in each class will outsell all other varieties. By eliminating slow-selling varieties you will be cutting out only a small percentage of your potential volume.

University Aid

If your state has a department of horticulture in one of its state educational institutions you can go there for help in making your selections of varieties. An alert department of horticulture, combined with an active extension service, should be well qualified to give reliable advice. The department should know not only what varieties are best suited to conditions in the state, but what are most commonly used. Furthermore, the department is in a position to give information about the best of the newer varieties. Its advice should be free of any tinge of prejudice, because its judgments are untrammelled by commercial considerations.

You can learn a great deal about varieties that sell the best by obtaining, if possible, the catalogs of two or three nurseries for several years back to see which items appear year after year. Another way to check is to compare the catalogs of several nurseries to see which varieties appear in all of them. If all of them list a variety and have listed it consistently for several years, you can be fairly sure it is something that you ought to have. A word of caution in regard to depending upon catalogs for this sort of information: Be sure the catalog is not one which circulates over wide areas of the country.

BARGAIN PRICES

Clearing new blocks of plants at ERNST NURSERIES, EATON, OHIO.

HEAVY SHEARED, vigorous carefully grown stock. 15 per cent discount to those who will dig own stock. Personally inspect these plants.



EVERGREENS

Taxus cuspidata			
15 to 18 ins.	.....	\$3.25	
18 to 24 ins.	.....	4.00	
24 to 30 ins.	.....	5.00	
Juniperus hetzi			
12 to 15 ins.	.....	1.35	
15 to 18 ins.	.....	1.50	
18 to 24 ins.	.....	2.25	
Juniperus pfitzeriana			
12 to 15 ins.	.....	1.35	
15 to 18 ins.	.....	1.50	
Juniperus burki			
2 to 2 1/2 ft.	.....	2.25	
2 1/2 to 3 ft.	.....	2.75	
Pyramidal Arborvitae			
2 1/2 to 3 ft.	.....	\$1.50	
4 to 4 1/2 ft.	.....	2.50	
Elegantissima Arborvitae			
18 to 24 ins.	.....	1.50	
2 1/2 to 3 ft.	.....	2.00	
3 to 4 ft.	.....	3.00	
Woodward Globe Arborvitae			
12 ins.	.....	1.00	
Siberian Globe Arborvitae			
18 to 24 ins.	.....	1.50	
24 to 30 ins.	.....	2.25	
Golden Biot			
12 to 15 ins.	.....	1.25	
15 to 18 ins.	.....	1.50	
18 to 21 ins.	.....	1.75	

Taxus cuspidata 15 to 18 inches and the Siberian Globe Arborvitae are at nursery in Muncie, Indiana. Also have general line of shrubs and trees for the landscape gardener.

ERNST, INC.

P. O. Box 648

MUNCIE, IND.

COTONEASTER

(Acutifolia)

15 to 18 ins., well-branched, transplants, 2-yr.-old plants, to be dug and shipped in April. \$22.50 per 100.

Check with order for no packing charge.

Ask for our Gladiolus Bulb catalog, listing All-America selections.

VENNARD NURSERY

Box 394N

SIoux CITY, IA.

ARMINTROUT'S EVERGREEN NURSERY

ALLEGAN, MICH.

Seedlings—Transplants

Finished Stock

Send for price list.

MAGNOLIA GLAUCA (virginiana)

Grown from northern Ohio seed

Specimen Stock B&B

3 to 4 ft. 4 to 5 ft. 5 to 6 ft.

ILEX CRENATA HETZI

Strong 2-yr. liners from pots

\$27.50 per 100 \$250.00 per 1000

300 takes 1000 rate

MITISKA NURSERY

AMHERST, O.

service. It is a great temptation to buy because of low prices, but the risk is also great.

It is likely that this mistake is made more often than any other error in buying by those who go into the nursery business for the first time. Oftentimes, delivery of low-priced but poor-quality nursery stock is made at the beginning of the rush season, and by the time the buyer realizes that he did not get what he ordered or expected it is too late to order elsewhere or the stock is unavailable. Occasionally, a reliable wholesale nurseryman will offer an item or two at low prices because he is overstocked, but the quality remains high.

Hardy Stock Important

There is an unfortunate tendency on the part of both wholesaler and retailer to sell plants of doubtful hardiness. Hardiness is a complicated thing, involving resistance not only to cold or heat, but to low or high humidity. It is a disservice to the customer to sell him plants of doubtful hardiness. They might survive for a season or two and then die. If you offer a plant for sale, the customer has a right to assume that it is hardy.

There are many plants whose limits of hardiness are not well defined. Agricultural colleges, arboreta and experiment stations are all glad to be of help in advising on hardiness. If you are unable to determine the hardiness of a given plant in your area, do not offer it for sale until its hardiness is established. Many nurserymen maintain test gardens of plants in which they are interested, but whose performance record in their area is unknown. It takes several years of testing before one can be reasonably sure of the adaptability of a plant.

Stock Moderately

The wholesale nurseryman will be glad to help you work out a beginning stock, the varieties, the sizes and the quantities. Unless your source of supply is at a great distance, better not try to stock up with all plants that you hope to sell the first season. Start with a balanced assortment, but figure on buying more as the season progresses. The number of plants of each kind that you can sell the first season is an unknown quantity.

It will be better to run the risk of not being able to replenish the supply of some items than to end the season with a lot of unsold plants that you may not be able to salvage. Reliable wholesale nurserymen will try to avoid overstocking you. They

NEW SUB-ZERO EVERGREEN IVY

Special Strain Stands 20° Below Zero

THESE SUB-ZERO ENGLISH IVIES (*Hedera Helix*), with their glossy evergreen leaves, are the descendants of a remarkably hardy parent plant which has withstood 28 Chicago winters without protection.

THORNDALE IVIES are strong, vigorous growers. Excellent climbers and equally wonderful ground cover plants. Clean, compact, easy to handle, they are profitably sold through garden centers and mail-order catalogs either as evergreen climbing vines or ground covers for shady or sunny places.

Nationally Advertised Retail Prices:

6 for \$4.50	25 for \$15.00
12 for 8.50	100 for 60.00

WHOLESALE PRICES

\$25.00 per 100 in lots of 250 or more
\$30.00 per 100 in lots of 50 or less than 250



POT-GROWN QUALITY

This strong plant is ready to branch out and develop into a bushy specimen. Vigorous, fibrous root system eliminates transplanting losses. **THORNDALE IVIES** are grown in outdoor beds in a rugged climate for hardiness and toleration of temperature extremes.

STRONG, HEALTHY PLANTS from 2½-inch rose pots or 2-inch bands. Orders are booked and shipped according to date received. Terms are cash with order unless credit has been established. All prices F.O.B. Woodstock, Ill. Write to Thorndale Farm Nursery, Woodstock, Ill.

Please order early because stock is not any too plentiful and a good share has already been sold to many of last year's customers who have re-ordered much larger quantities for spring delivery.

• Send for Thorndale Planting Guide. Free!

Thorndale FARM
WOODSTOCK • ILLINOIS

Growers of Thorndale Ivies and other hardy vines and ground cover plants.

PLANT PROPAGATION PRACTICES, by James S. Wells. Detailed procedures for propagating selected plants. **\$7.50.** American Nurseryman, Chicago 4, Ill.

Hydrangea P. G.
Hydrangea P. G. (Tree Form)
Ornamental Trees
Grapevines, 1-yr.

Thorne Brewster

WILLOWBEND NURSERY
PERRY, O.

CORNUS FLORIDA

(White-flowering Dogwood)

Spring, 1956

4 to 5 ft., medium	\$ 2.50
4 to 5 ft., heavy	3.75
5 to 6 ft., medium	3.00
5 to 6 ft., heavy	5.50
6 to 7 ft., medium	4.00
6 to 7 ft., heavy	6.50
7 to 8 ft., medium	6.00
7 to 8 ft., heavy	9.00
8 to 10 ft., medium	9.00
8 to 10 ft., heavy	18.00

Larger sizes to specifications up to \$100.00.

WADE & GATTON NURSERIES
BELLVILLE, O.

B&B EVERGREENS

	Each
Brewers Hybrid,	
24 to 30 ins.	\$2.00
30 to 36 ins.	2.25
Pfitzer, blue or green,	
18 to 24 ins.	2.25
24 to 30 ins.	2.75
Berckmans Arborvitae,	
24 to 30 ins.	2.00
30 to 36 ins.	2.25
Excelsa Arborvitae,	
30 to 36 ins.	2.00
36 to 42 ins.	2.25
Spiny Greek Juniper,	
24 ins.	2.00
Upright Junipers,	
3 to 4 ft.	3.50
4 to 5 ft.	4.00
Burki Keteleeri	
Blue Haven Pathfinder	
Canaerti Sneedi	
Dundee Welchi	
Arizona Cypress, green,	
3 to 4 ft.	3.50
4 to 5 ft.	4.00
Arizona Cypress, Gareii, blue,	
4 to 5 ft.	3.50
5 to 6 ft.	4.00

SEEDLINGS

Chinese Elm, 1-yr.	Per 1000
6 to 12 ins.	\$10.00
12 to 18 ins.	18.00
18 to 24 ins.	25.00
2 to 3 ft.	35.00
	Each
Lombardy Poplars	
3 to 4 ft.	\$0.07/2
4 to 5 ft. ....	.10
	Per 100
Flowering Almond	
18 to 24 ins.	\$45.00
Spiraea vanhouttei	
18 to 24 ins.	25.00
2 to 3 ft.	30.00
Cydonia japonica, red	
18 to 24 ins.	25.00
2 to 3 ft.	35.00
30 at 1000 rate	

M. MEYER NURSERY

5439 S. Hydraulic
WICHITA 15, KAN.
Phone: Jackson 43413

DWARF BLUE-LEAVED ARCTIC WILLOW

(Salix Purpurea Nana)

Beautiful, new hedging shrub for all northern localities. Will thrive in practically any type of soil. Has fine-cut, bluish leaf and makes spectacular low-to-medium hedge. Should have full sun to develop to maximum attractiveness.

	Per 100	Per 1000
Cutback liners	\$ 6.00	\$ 40.00
9 to 12 ins., 1-yr.	12.00	100.00
12 to 18 ins., 1-yr.	15.00	125.00
18 to 24 ins. and up, 1-yr.	20.00	180.00

BEARDSLEE NURSERY PERRY, O.

EUONYMUS VEGETUS

	Per 100	Per 1000
12 to 15 ins.	\$ 75.00	\$725.00
15 to 18 ins.	100.00	950.00

Write for complete trade list.

KINGWOOD NURSERIES
MENTOR, O.

know if they want to continue to sell you it is better to undersell.

Always keep in mind the fact that you are dealing with a perishable product. As you gain experience from year to year you will be able to buy more intelligently and reduce the risk of running out of stock or ending the season with too much.

Meet Popular Demands

Your beginning stock should be confined largely to the best-selling items, the ones in most demand, the ones that will give you the greatest volume of business with the smallest assortment. Your wholesale nurseryman will be happy to help you work out this assortment. He knows that your continued patronage depends upon his giving you the best guidance of which he is capable. Naturally, he does not know all the answers, but he knows a lot of them, and you might as well avail yourself of his experience.

After you open up for business it is likely that you will get calls for many varieties that you do not have in stock. Do not be disturbed by this. No nurseryman can carry everything, and it would not pay him if he did. You will discover with experience that a comparatively small number of varieties carry the load.

Keep Record of Requests

Of course, you will want to add to your assortment from time to time. The way to do this intelligently is to keep a record of the inquiries for varieties that you do not have. Do not depend upon your memory for this; it may fail you. At times there may seem to be many inquiries for certain things you do not have, but these might add up to only a few when actually recorded. Watch for new varieties that are widely advertised in the garden magazines. It will pay you to stock some of them because the advertising creates a good demand.

Another problem you will have to solve is what sizes (the nurseryman calls them grades) to carry in stock. Here again the wholesale nurseryman can help you, because he knows from his experience which grades sell the best. Just as there is a temptation to buy nursery stock because it is cheap, so there is a temptation to buy small sizes because they cost less.

The best way to build a sound business is to offer your customers high-quality stock in sizes large enough to give immediate satisfaction. Small trees and shrubs may be of high quality, but the customer will have to wait a long time before

Be sure to
list...

red richEVERBEARING
PLANT PAT. NO. 993 R

We have the sales help you need to sell and profit from this popular everbearing strawberry. Write today for complete information on Pack-Out, Bulk shipment and over-the-counter packages. A complete line of strawberry and perennial plants.

Write
for
Catalog...

JUDSONWHOLESALE NURSERIES
BRISTOL, INDIANA**NORTHERN-GROWN STOCK**

Evergreen Liners
Bleeding Hearts
Ornamental Shrubs
Fruit Trees
French Lilacs

Philadelphus Minnesota Snowflake
(Plant Patent No. 538).

Send for list.

J. V. BAILEY NURSERIES
ST. PAUL 6, MINN.

**HARDY PLANTS
Bulbs and Shrubs**

"America's Finest"

Write for Trade List

Springbrook Gardens

MENTOR, O.

Stock that is hardy.

WHOLESALE

SUMMIT NURSERIES
STILLWATER, MINN.

SURPLUS PEACH

7/8, 11/16, 9/16, 7/16-in. cal.

NORTHERN OHIO GROWN

Belle of Georgia
Champion
Cumberland
Elberta
Fairhaven
Goldeneast

Golden Jubilee
Halehaven
J. H. Hale
Improved Hale
Lemon Free
Mikado
Oriole

Red Elberta
Redhaven
Salberta
Shipper's Late Red
Triogem
Valiant

— SURPLUS ORNAMENTAL SHRUBS —

Send Us Your Want List at Once

We have a complete line of all nursery stock. Write for our wholesale catalog.

ALLEN'S

Telephone:
HOward 6-1763

NURSERIES & SEED HOUSE
GENEVA, OHIO

Mail Address:
BOX 99

they give him the effect that he wants. Furthermore, he may not have the time, inclination or ability to give the plants the care they need to bring them to the desired sizes. The best merchandise attracts the best customers, and they become your best advertisements.

Variety in Grades

Should you carry more than one size or grade? That is a hard question to answer, and you may arrive at a satisfactory answer only after you have had considerable experience. It might be a good idea to offer two sizes of some of the more popular, faster-selling items.

Those who favor carrying more than one grade follow the practice because they have customers who prefer to buy smaller plants. They may be good gardeners who like to work with plants and enjoy seeing them develop and who sometimes are financially unable to buy the larger plants. The garden center operator in carrying the smaller plants is rendering a real service to these folks.

Another reason advanced by nurserymen for offering smaller sizes in some varieties is that it enables them to show the customers the difference in grades. The customer may feel

SMALL FRUIT PLANTS

Grapes

Currants

Berry Plants

Write for Wholesale Price List

FOSTER NURSERY CO., Inc.
69 Orchard St. FREDONIA, N. Y.

CORKSCREW TREE

(Salix Matsudana Tortuosa)

Contorted Hankow Willow or Corkscrew Tree. Very odd appearing horticultural curiosity. Branches grow upright with a corkscrew twist. Compact growing large shrub or small tree. Ultimate height 12 to 15 ft. Small trees approximately 4 to 5 ft., \$2.50 each. BEARDSLEE NURSERY PERRY, O.

FRUIT TREES

Dwarf and Standard

Send for Wholesale List

KELLY BROS. NURSERIES, INC.
Dansville, N. Y.

DOUGLAS FIR SEED

Pseudotsuga glauca, hardy, high altitude, 1955 crop. Collected from Colorado's highest stands (8000 ft.). Germination, 92% \$10.75 lb.

FORESTRY ASSOCIATES
922 East Tilghman St.
ALLENTOWN, PA.

ESPALIER

TRAINED FRUIT TREES

are profitable

to sell . . .

★ BECAUSE ESPALIERS ARE DISTINCTIVE. Homeowners are eager for trees that will make their garden the envy of their neighbors. If you sell Espaliers, you may attract customers who might go to other nurseries.

★ BECAUSE ESPALIERS ARE BOTH BEAUTIFUL AND PRACTICAL—gracefully shaped trees that yield luscious, full-sized fruit. Thus they appeal to customers interested in making maximum use of limited space. A small display will beautify your own grounds, too.

★ BECAUSE ESPALIERS RETAIL FOR \$4.00 TO \$15.00 AND UP. Distinctive, carefully trained Espaliers justify higher prices than ordinary fruit trees, thus providing welcome extra profits for you.

DO YOU HAVE MY CATALOG?

Send a post card for your copy, or write for full information on retailing ESPALIER TRAINED FRUIT TREES.



HENRY LEUTHARDT
Port Chester · New York

YOU WILL LIKE THE QUALITY OF NAUGHER'S

PINK DOGWOODS

	Each
12 to 18 ins., 1-yr., bare root	\$0.75
18 to 24 ins., 1-yr., bare root	1.00
24 to 30 ins., bare root	1.25

NAUGHER'S Pink Dogwoods are dormant budded on transplanted seedlings, insuring heavy root systems, good caliper and well-branched trees. Our grading is very liberal. All orders will be promptly acknowledged, greatly appreciated and expedited with personal supervision.

NAUGHER'S field-grown evergreen liners are produced under ideal conditions—properly irrigated, cultivated, fertilized, root-pruned—thus, a hardy, well-rooted liner. Our liners are dug, graded and made ready for shipment within a 48-hour period. NAUGHER'S packing is free when cash accompanies order. Fifty or more plants at 100 rate; 300 or more at 1000 rate.

DON'T DELAY . . . BOOK YOUR ORDER NOW . . . FALL OR SPRING DELIVERY



NAUGHER NURSERY

CHASE, ALA.

Telephone Huntsville, Ala.
JEfferson 2-2061

that he does not want to pay the price for a tree or shrub in the larger size, but when he sees the difference between the larger and smaller grades he will decide he would rather pay the higher price to get the larger plant.

Delivery Considerations

There is still another consideration in determining the sizes you are to carry in stock. If you plan on maintaining a delivery service, you can handle larger sizes, because you can deliver the trees and shrubs to your customer's home, if they are too large for his car. On the other hand, if you operate strictly cash-and-carry, your stock will have to be in sizes that can be loaded conveniently into trunks or back seats of passenger cars or tied on the fenders. The growing popularity of station wagons is a help, because larger plants can be carried in them. J. J. P.

DANIEL TIMCHAL, 212 Myrtle avenue, Havertown, Pa., is opening a garden center at Concordville, Pa.

HERMAN J. SCHMIDT, who left D. Hill Nursery Co., Dundee, Ill., last October, has taken a job as propagator with Sneed Nursery Co., Oklahoma City, Okla.

FIELD-GROWN EVERGREEN LINERS

	Each	Per 100	Per 1000
Andorra Juniper, 1-yr., 6 to 12 ins.	12 1/2c	10c	
Ashford Juniper, 1-yr., 6 to 12 ins.	12 1/2c	10c	
2-yr., 6 to 18 ins.	17 1/2c	15c	
Fastigiata Juniper			
1-yr., 6 to 12 ins.	12 1/2c	10c	
2-yr., 6 to 18 ins.	17 1/2c	15c	
*Greek Juniper, 1-yr., 6 to 12 ins.	12 1/2c	10c	
Hetz Juniper, 1-yr., 6 to 12 ins.	17 1/2c	15c	
Irish Juniper, 1-yr., 6 to 12 ins.	12 1/2c	10c	
Savin Juniper, 1-yr., 6 to 12 ins.	12 1/2c	10c	
2-yr., 8 to 15 ins.	17 1/2c	15c	
*Root-pruned.			

SURPLUS LIST

	Each	Each
	Per 10	Per 100
ARBORVITAE		
1100 Berckmans Golden Arborvitae, 18 to 24 ins.	\$1.75	\$1.50
650 Berckmans Golden Arborvitae, 24 to 30 ins.	2.25	2.00
650 Fruitland Green Berckmans Arborvitae, 18 to 24 ins.	1.75	1.50
650 Fruitland Green Berckmans Arborvitae, 24 to 30 ins.	2.25	2.00
200 Conspicua Arborvitae, 30 to 36 ins.	2.25	2.00
500 Conspicua Arborvitae, 3 to 4 ft.	2.50	2.25
200 Conspicua Arborvitae, 4 to 5 ft.	2.75	2.50
JUNIPERS		
200 Andorra Juniper, 15 to 18 ins.	1.50	1.25
450 Andorra Juniper, 18 to 24 ins.	1.75	1.50
225 Andorra Juniper, 24 to 30 ins.	2.00	1.75
1000 Pfitzer Juniper, 24 to 30 ins.	2.50	2.00
250 Pfitzer Juniper, 30 to 36 ins.	3.00	2.50
75 Savin Juniper, 18 to 24 ins.	1.75	1.50
300 Savin Juniper, 24 to 30 ins.	2.00	1.75
900 Greek Juniper, 12 to 15 ins.	1.50	1.25
500 Greek Juniper, 15 to 18 ins.	1.75	1.50
500 Greek Juniper, 18 to 24 ins.	2.00	1.75
250 English Juniper, 30 to 36 ins.	2.00	1.75
350 French Spike Juniper, 24 to 30 ins.	1.50	1.25
650 French Spike Juniper, 30 to 36 ins.	1.75	1.50
150 French Spike Juniper, 36 to 42 ins.	2.00	1.75
100 French Spike Juniper, 5 to 6 ft.	3.00	2.50
500 Ashford Juniper, 18 to 24 ins.	1.50	1.25
185 Ashford Juniper, 24 to 30 ins.	1.75	1.60
350 Ashford Juniper, 30 to 36 ins.	2.00	1.85
100 Ashford Juniper, 36 to 42 ins.	2.25	2.00
500 Irish Juniper, 18 to 24 ins.	1.50	1.25
350 Irish Juniper, 24 to 30 ins.	1.75	1.50
350 Irish Juniper, 30 to 36 ins.	2.00	1.75
300 Sylvester Juniper, 30 to 36 ins.	2.50	2.00
250 Chinese Pyramidal Juniper, 30 to 36 ins.	2.75	2.25
325 Chinese Pyramidal Juniper, 36 to 42 ins.	3.00	2.50
600 Chinese Juniper, leaders out, bushy, 30 to 36 ins.	3.00	2.50
800 Chinese Juniper, leaders out, bushy, 36 to 42 ins.	3.25	2.75
500 Chinese Column Juniper, blue, 5 to 7 ft.	4.00	3.50

All plants B&B. Priced at our nursery and loaded on your trucks.

ROBERT McINTYRE NURSERY

Woodycrest Ave.

NASHVILLE 11, TENN.

MASSACHUSETTS MEDALS

Arno H. Nehrling, executive secretary of the Massachusetts Horticultural Society, recently announced the society's medal recipients for 1955. He stated the George Robert White medal of honor had been awarded to Dr. Harold Lloyd Lyon, Honolulu, Hawaii, director of the Foster Gardens, Wahiawa Botanical Garden and Manoa Arboretum, for his work of international scope in establishing the sugar and pineapple industries in Hawaii and his leadership in horticulture and botany that have contributed significantly to the development of Hawaii as a vital horticultural center.

Dr. Lyon is credited with introducing rare and unusual plants and organizing the first plant pathology department to be established by any experiment station in the United States.

The Jackson Dawson medal was awarded to Eugene S. Boerner, Newark, N. Y., whose achievements in rose breeding with hybrid teas and more especially with floribundas, have earned for him wide acclaim from the All-America Rose Selections committee, the American Rose Society and amateur gardeners in this country and abroad.

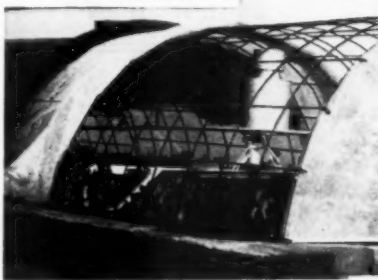
The Thomas Roland medal was awarded to Frank Reinelt, Capitola, Calif., for improving by selection and hybridizing such important plants as delphinium, tuberous-rooted begonias and primulas in the establishment of Vetterle & Reinelt. He has greatly enlarged the commercial scope of horticulture on the west coast and made possible many outstanding new varieties of plants for gardens all over the world. Mr. Reinelt has been cited by the American Delphinium Society and the American Begonia Society for his accomplishments.

The society's large gold medal was awarded to William Ormiston Roy, distinguished horticulturist and landscape naturalist of Montreal, Que., for a lifetime devoted to acquiring a knowledge of plants, for designing private gardens, for the development of an outstanding collection of woody plants in Montreal's Mount Royal cemetery and for many plantings throughout Canada and the United States.

WILLIAM J. WARRICK, JR., 15 East Bow street, Washington, Pa., and Robert T. Macauley, a partner, are planning a combination nursery and garden center to be operated in conjunction with their florists' business.

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All of our cuttings are rooted in soil. As soon as they root, they usually begin to make some new growth—often a great deal—and always begin to develop a hard, secondary root system. After a few months many are about equal to light bed-grown liners, although we continue to call them rooted cuttings.

So that you can judge what we are offering, we give the month in which the cuttings were rooted. That is, "RC June 55" would mean cuttings rooted during June, 1955, which have been growing in the soil in which they were rooted ever since. The amount of growth and the development of the root system will be in proportion to the time that has elapsed since they were rooted.

All plants go through our normally severe winters outside, so you can depend on receiving thoroughly hardened and dormant liners. However, spring does come early here. Some varieties will show activity by March 10 and nearly all begin some growth by the first of April, so please order early.

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 F—field-grown Mo., Yr.—date rooted
 T—transplanted S—seedling

Abelia grandiflora—2-yr., T, F, cutback, well-branched, clean and extra-nice, 12 to 18 ins., 20c; 18 to 24 ins., 30c.

Berberis julianae nana—compact type, often called "BPI," RC, Aug. 55, 10c.

Berberis mentorensis—RC, July 55, 7c; BG, T, 9 to 12 ins., 15c.

Berberis sargentiana—RC, July 55, 8c; 2-yr., T, F, 12 to 18 ins., 25c; 18 to 24 ins., 40c.

Cherry Laurel—see *Prunus*.

Elaeagnus fruitlandi—RC, June 55, 8c; 2-yr., T, F, 12 to 18 ins., 25c.

Elaeagnus pungens reflexa—RC, June 55, 8c.

Euonymus alatus compactus—RC, June 55, 8c.

Euonymus patens (klauschovius)—large-leaved, BG, 12 to 15 ins., 12c; 2-yr., T, F, 8 to 12 ins., 15c; 12 to 18 ins., 25c.

Euonymus patens Newport (klauschovius)—intermediate leaf, relatively nonfruiting—RC, Aug. 55, 8c.

Euonymus patens (klauschovius)—small-leaved, usually called *erectus* in the south, very similar or identical to *radicans erecta*, RC, Aug. 55, 6c; 1-yr., T, F, 8 to 12 ins., 15c; 2-yr., T, F, 12 to 18 ins., 25c.

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Hlex erenata convexa (bullata)—large, RC, July 55, 7c.

American Holly Hedge—Beautiful and unusual. Shears perfectly to any size. All male plants from cuttings. Male, because of uniform, better color, and hoppers won't break it up for decorations. 3-yr. transplants, 2 yrs. in open field, 18 to 36 ins., 75c.

Hlex rotundifolia—large, RC, July 55, 7c; BG, T, 4 to 6 ins., 10c; 6 to 8 ins., 12½c; 8 to 10 ins., 15c.

Hlex vomitoria—female or male, selected strain, from cuttings, BG, T, 6 to 9 ins., 20c; 9 to 12 ins., 30c.

Jasminum floridum—BG, 8 to 12 ins., 10c; BG, 2-yr., 12 to 18 ins., 15c; T, F, 12 to 18 ins., 20c; 18 to 24 ins., 30c.

Jasminum nudiflorum—BG, 8 to 12 ins., 10c; BG, 2-yr., 12 to 18 ins., 15c; T, F, 12 to 18 ins., 20c; 18 to 24 ins., 30c.

Laurel Cherry—see *Prunus*.

Mahonia bealei—1-yr., S, 6c; 2-yr., BG, transplanted, 4 to 6 ins., 10c; 6 to 9 ins., 15c.

Prunus caroliniana (Carolina Cherry Laurel)—S, 4 to 8 ins., 4c; 8 to 12 ins., 6c; 12 to 18 ins., 8c.

Viburnum rhytidophyllum—RC, June 55, 10c.

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PLANT NOTES HERE AND THERE

By C. W. Wood

Penstemon Secundiflorus

It is an interesting pastime to watch the progress of the genus penstemon in American botanical chronology. Of course, this is the only continent where this can be done, because, excepting the one species which botanists mention as being native to northeastern Asia, all the others are natives of North America. There is not space for a full chronological table, but it may be interesting to point out the highlights as Meehan outlined them in his "Native Flowers and Ferns of the United States."

When Douglas began collecting for the Royal Horticultural Society during the first quarter of the 19th century, "barely a dozen kinds were known." That plant explorer added about 20 new species to the list. Then several explorers, including Drummond, Nuttall, Fremont and Long, all added something to our knowledge of penstemon, so that "in 1845, when De Candolle's 'Prodromus,' containing the penstemons known to that time appeared, 54 species were described." Meehan ends his chronology with the statement that in Gray's "Synoptical Flora" (1878), "there are no less than 70 named and classified." We can then skip to Krautter's monograph of the genus in 1908, in which he admits 148 species. Where the count stands today I have no idea, for the authorities keep shifting their cards around from time to time, so that a mere gardener is quite lost in the shuffle. But the list does include the pretty species which heads this note.

P. secundiflorus is one of the better border beardtongues, fairly permanent in the east, especially if divided often. But even if one had to grow it from seeds every year, it would still be worth the trouble for its large, pretty, 2-lipped flowers, lilac to light purple in color. Although the flower color is variable, it does not vary so much as plants mistakenly listed under this name would indicate. For instance, when I was investigating penstemons years ago, I often had what a botanist called *P. acuminatus*, *P. angustifolius* and *P. confertus* in several forms all in one melange. It would be easy to become confused among some of the species (for instance, to differentiate between *P. acuminatus*

and *P. angustifolius* as they come from collectors), but one should be able to distinguish the 1-sided inflorescence of *P. secundiflorus* from all the others. Also the basal leaves and those of the barren shoots are broader at the end than at the base. One of the authorities consulted called our present plant handsome, which is no exaggeration, in my opinion. When the floras tell us that "the country where this and kindred penstemons are found is very dry, and the soil has a barren and parched appearance," they tell us all we need to know about treatment of the plant in the garden.

Achillea for Cutting

From time to time, it will be my pleasure to direct attention to what I think are the better cut flower perennials, and I can think of no better place to commence than with achillea, confining the remarks to two or three kinds.

Achillea ptarmica is invaluable to

the busy grower, requiring little care other than resetting every year or two. As the cutting qualities deteriorate rapidly when the clumps become matted, it is necessary to make annual, or at least biennial, plantings. The plants do well in any open, sunny situation, and propagation of the named forms is from divisions.

It is the named forms of the double-flowered kinds that the cut flower grower needs. Of these, Pearl and Snowball are perhaps the best, and if I were restricted to one kind, the latter would get my nod, because it has the most perfect, whitest, double balls of any kind that I know. During the season of flowering from June onward, there is no better hardy plant for vase and design work.

Unlike the former species, *A. filipendulina* does not spread so rapidly into mats, and, as a consequence, it does not need dividing so frequently. In fact, I have seen clumps that had not been touched for eight

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years, except for cutting and fertilizing, which were still producing excellent crops of cut flowers. If the heads are cut when fully developed, they make excellent dried material for winter bouquets. The flowers of this species are yellow (rather dull yellow, one has to admit), coming in dense corymbs, which may be as much as five inches across. In good soil, the plant may grow as tall as five feet, blooming from June into September.

A. tagetea and the named form Gold Plate both grow about two feet tall and produce immense heads of pale yellow flowers, highly useful in either the fresh or dried state. They bloom from June well into September in soil too dry and sterile for almost any comparable cut flower perennial.

Cephalaria Tatarica

An Asiatic cousin of the scabiosas, Cephalaria tatarica, is a likely candidate for a place among perennials for cutting. It has been a number of years since it was in my trials, and I rarely see it in gardens or nurseries, practically never in the latter; so I suspect that it might be a good item for the neighborhood grower who could show it off to his customers. I remember it as having a stately

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Rugosa rubra, single, red		440	475		
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growth of six feet, making it an admirable background in a border or for planting among low shrubs, where it can show off its pretty, scabiosa-like flowers of a soft cream or sulphur-yellow shade. The flowers, blooming during July and August, are ideal for cutting, adding another worthy and, in this case, unusual summer cut flower. *C. tatarica* grows easily from seeds, especially if planted early, in the ordinary garden, though a rich medium should add a foot or two to its ordinary stature of four feet.

Perennials for Cut Flowers

At least three requests have come in during the past month or two for a discussion of perennials for cut flowers in the commercial producers' schedule. I shall attempt the task now.

There seems to be a wide difference of opinion among neighborhood growers who make, or have made, a practice of selling cut flowers, as to the desirability of using perennials in their operations, some maintaining that outdoor flowers should form the backbone of their summer and fall work, while others claim that garden-grown perennials should be banned entirely, because of the havoc they play on the cut flower market. Be that as it may, the fact remains that outdoor stock plays an important part in the commercial cut flower market during late spring, summer and early fall and that the neighborhood flower grower is wise who takes full advantage of it.

It would be wise, at the advent of such an enterprise, to decide how to market the product. If the grower expects to retail it all through his own establishment, he will want relatively small quantities of good cut flowers to cover the entire outdoor season from the first daffodils of spring to the last chrysanthemums and Christmas roses of late fall, while a wholesale trade would call for a large number of a few kinds, such as peonies and Shasta daisies. In either case the stock must be grown extremely well and the product must be marketed in perfect condition, because mediocre stock stands little chance on a perennially oversupplied summer market.

The often-repeated statement that perennials for cutting cost nothing for upkeep after they are once planted probably has had much to do with their ill repute in some quarters. There was never anything more fallacious written about flowers.

Anyone who ever grew a plant should know that outdoor stock

needs attention just as well as stock grown under glass. Hardy stock does not need the minute attention to detail as does that grown under the artificial conditions of the greenhouse, but it does need care if it is to produce a good crop. Some cut flower perennials, such as the peony and trollius, need little care for years, except fertilizing and cultivating, after they are planted, but others, such as Shasta daisies and chrysanthemums, need frequent division to enable them to produce large flowers on long stems.

You may rest assured that every perennial will repay any extra attention given it. Let no one tell you that the first cost is the only one in growing perennials for cut flowers. Upkeep must be taken into consideration in every planting. Upkeep consists of a number of more or less time-consuming tasks, including cultivating, fertilizing, weeding, mulching and dividing. And all these must be done at the correct moment if one expects maximum returns from his investment and work.

Cultivation is just as necessary for good results from perennial flowering plants as it is with any other crop. If anyone thinks that he can do a profitable stroke of business without cultivation, he is in for a rude awakening. A case in point comes to mind: An acquaintance of mine who made a good thing out of peony cut flowers at his home place thought he could profit still more by putting out a larger acreage on rented land about 200 miles south of his home. Blooms of the first two years of cutting were all that could be expected of a new plantation, but after that they steadily declined, because the only attention the plants had was in spring when the crew went there to make the cut. It was necessary to clean out the accumulation of weeds to enable the men to make the cut.

For economy of labor, commercial plantings should be made in rows far enough apart to permit tractor cultivation. The man-powered wheel hoe may be good enough in small areas where economy of space is necessary, but it puts even the large-scale operator at a disadvantage from the start. The plants should be given ample space in the row to permit maximum development. A planting requiring two feet of row space will be better for 3-foot spacing than it would be if crowded into a foot. In fact, one of the greatest limiting factors in growing a superb product in perennial cut flowers is too close spacing.

Along with ample room goes a good soil, well worked. It may be said as a general rule that a well-



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	Each	
(Pink Dogwood)		
12 to 18 ins., B.R.	\$0.75	
18 to 24 ins., B.R.	1.00	
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3 to 4 ft., B.R.	2.00	
Above plants were root-pruned spring, 1955.		
3 to 4 ft., B&B	3.00	
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	Bare-root	B&B
CERCIS CANADENSIS	Each	Each
(Redbud)		
2 to 3 ft.	\$0.35	\$0.70
3 to 4 ft.	.50	1.00
4 to 5 ft.	.75	1.50
5 to 6 ft.	1.00	1.75
6 to 8 ft.	1.25	2.25

RHUS COTINUS

(Smoke Tree)		
3 to 4 ft.	.50	
4 to 5 ft.	.75	

SALIX BABYLONICA

(Weeping Willow)		
4 to 5 ft.	.50	
5 to 6 ft.	.75	
6 to 8 ft.	1.00	

CALYCANTHUS FLORIDUS

(Sweet Shrub)		
18 to 24 ins.	.35	
2 to 3 ft.	.40	

HYDRANGEA QUERCIFOLIA

(Oak-leaved Hydrangea)		
18 to 24 ins.	.40	
2 to 3 ft.	.50	

ABELIA GRANDIFLORA

2 to 3 ft.	.50	1.00
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2 to 3 ft., well-br.....	5.00	40.00
3 to 4 ft., well-br.....	8.00	70.00
4 to 5 ft., well-br.....	11.00	100.00

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prepared soil, amply fertilized, is essential to good cut flowers. The only exception to this rule is in the case of some plants which require certain degrees of acidity or other out-of-the-ordinary conditions, and the busy neighborhood grower will seldom attempt these anyway. Generally speaking, only those plants that thrive under ordinary conditions of soil and moisture should be undertaken by the general practitioner unless his locality has their special needs in a natural state.

Aster Royal Velvet

I had meant to mention the good, new aster which heads this note earlier in the season, but it escaped my memory; now it is set down with the hope that it is not too late for readers who are aster specialists to add it to their trials this year. I am reporting on it from a single afternoon's observation, and I may have missed some of its good qualities or even some of its defects, but my opinion at the time was that Royal Velvet is a splendid addition to the blue aster class (dark, velvety, violet blue, according to my notes made at the time). It has splendid growth habits, and is most free flowering, as are many asters of compact growth. In addition, the flowers are almost double, adding another sales appeal to the average gardener.

Euphorbia Myrsinites

In reply to an Arkansas reader, a beginner in our fascinating vocation, I should say Euphorbia myrsinites is not to be numbered among the top-rank rock garden plants, nor even among the top-rank plants for any purpose, but it is sufficiently different to appeal to most amateurs. Its thick, blue-gray leaves are arranged in spirals around 6-inch, lax stems, with yellow flowers in terminal heads during May and June in northern Michigan. It is easily grown from seeds and is best in a dry, hot situation, conditions which I believe would be easily supplied in Arkansas.

TENNESSEE CONVENTION

[Continued from page 8]

crops on 10 to 12 acres of land each year, spreads manure on this acreage and then proceeds to rot pine sawdust on the land, using a high nitrogen fertilizer before turning under the soil. Approximately six inches of topsoil is used, although this might be increased, he said. For different plants, various ingredients are added, there being three different mixtures—plain, peat moss and lime.

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our specialties.

Semmes, Ala.



In response to additional questions, Mr. Verhalen stated that the nursery does not sterilize the soil; it uses overhead sprinkling, and it mulches the cans right in the field. The cost of producing the 1-gallon container stock averaged 29 cents, while the average sales price was 76 cents. He added that this may seem like a high markup, but all the container stock was not sold.

Collected cans are used, he said, for they cost less and stack better on a truck. All cans are painted, he added. Bare-root trees are now being planted in 5-gallon containers, although most of the stock in the 5-gallon cans comes from the 1-gallon containers.

The panel discussions were cut short, due to the lack of time.

The Tuesday morning session got under way with the showing of the film, "How to Sell Quality," obtained from the A. A. N. L. B. Scott, Spartanburg, S. C., executive secretary of the Southern Nurserymen's Association, asked for the floor to explain the benefits of joining the association. He related that Tennessee membership numbered 50 in the southern association, which was the highest among the 14 participating states.

Industry Statistics

A comprehensive economic report was delivered by Dr. Norman Townshend Zellner, assistant agricultural economist, agricultural experiment station, University of Tennessee, Knoxville. It contained a progress report on marketing Tennessee horticultural specialties. This project, explained Dr. Zellner, is a regional one under the United States Department of Agriculture and is planned to provide a sound informational basis for conducting future research on the marketing of horticultural specialties.

To collect the data, a questionnaire was prepared covering the year 1954 and involved the following items: Acreage, sales, inventory, employment, structures and equipment, marketing practices and expenditures. Visits were made to all certified nurseries containing six acres or more, while a one-third sampling was taken of firms with less than six acres. Records of the Tennessee state department of agriculture were inspected, and an exploratory study of practices followed in retailing ornamental plants in east Tennessee was conducted.

Acreage Increase

Findings showed that in 1955 there were 6,293 acres of certified



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SUWANNEE RIVER, THAT IS ...

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1-gallon cans, \$1.25 each for 50 or more.

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"WIGHT GROWN MEANS GROWN RIGHT"

JUNIPERUS VIRGINIANA

(Red Cedar)

	Per 100	Per 1000
6 to 12 ins.	\$2.50	\$20.00
12 to 18 ins.	3.50	30.00
18 to 24 ins.	5.00	45.00
Understock		
grafting grade	6.00	50.00

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As dug, not graded.	2.50	20.00
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CHINESE CHESTNUT TREES

Seedlings only of the Peter Lul strain, in 1-yr. whips, from 6 ins. to 4 ft. Your inquiries invited.

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LEESBURG, GA.

WE OFFER FOR IMMEDIATE SHIPMENT

	Per 10	Per 100
Liquidambar (Sweet Gum)		
3 to 4 ft., br.	\$ 6.00	\$ 50.00
4 to 5 ft., well-br.	10.00	90.00
Nyssa sylvatica (Black Gum)		
3 to 4 ft., br.	7.50	65.00
4 to 5 ft., well-br.	12.00	100.00
Oxydendron arboreum (Sourwood)		
3 to 4 ft., br.	5.00	35.00
4 to 5 ft., well-br.	7.50	60.00
5 to 6 ft., well-br.	10.00	90.00

Carpinus caroliniana (American Hornbeam)

4 to 5 ft., well-br.	5.00	40.00
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If interested in Hall's Honeysuckle in 50,000 up to 200,000 lots write for free sample.

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Juniperus japonica sylvestris, sheared	2 to 3 ft. and up
Juniperus pfitzeriana	2 to 3 ft. and up
Photinia serrulata	18 to 24 ins. and up
Photinia glabra	18 to 24 ins. and up

All above priced **ONE GRADE LOWER** than actual size. Please do not order less than ten any variety. Check our free illustrated catalog for these and other items you will be needing. New customers, cash with order please.

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GLEN SAINT MARY NURSERIES CO.

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TREES of REPUTATION

Just what you have been looking for. Popular sizes for best landscaping. Liberally graded, properly balled and burlapped, grown in fine irrigated soil and a good assortment of sizes. Cash discount 3%. 10% discount on 300 or more. Stock much better than average.

250 Blue Cone Arborvitae, 30 to 36 ins.	\$2.25
250 Berckmans Golden Arborvitae, 30 to 36 ins.	2.50
200 Golden Ball Arborvitae, fine, 30 to 36 ins.	2.50
500 Pfitzer Juniper, heavy, 24 to 30 ins.	2.75
800 Pfitzer Juniper, heavy, 30 to 36 ins.	3.25
750 Savin Juniper, heavy, 30 to 36 ins.	3.25

Your wholesale list is ready.

BRUCE NURSERIES
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SEEDS

for the Nurseryman and Forester.
Write for catalog.

CHRISTMAS TREE GROWERS

If undecided what type of seed to plant, request Scotch Pine branch samples cut from trees under exposure as proof of winter color.

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True-to-name, disease-free, large fibrous root systems.

Peach, Apple, Plum, Pear, Apricot.

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SPIRAEA JAPONICA COCCINEA

(Improved Anthony Waterer)

	Per 100	Per 1000
8 to 10 ins.	\$25.00	\$235.00
18 to 24 ins.	50.00	450.00

KINGWOOD NURSERIES
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Finest Quality

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Wholesale Growers
Pipeline & Walnut Sts., CHINO, CALIF.

HEMEROCALLIS

Day Lilies

	Per 10	Per 100
August Pioneer	\$2.50	\$20.00
Hyperion	3.00	25.00
Theron	2.50	20.00
Rajah	2.50	20.00

BEARDSLEE NURSERY Perry, O.

nursery stock in Tennessee. Acreage increased 35 per cent in the 4-year period, 1952-55. In west Tennessee, acreage doubled from 1947 to 1955; it has increased by one half in middle Tennessee and decreased by 30 per cent in east Tennessee.

Dr. Zellner related that in 1954, 49,372,539 trees were produced in Tennessee, 4,418,102 being nuts and fruit, 39,662,195 shade trees and 5,292,243 ornamental trees. A total of 19,391,381 shrubs were produced, 15,568,543 being deciduous, 2,847,635 broad-leaved evergreens and 975,203 needle-leaved evergreens. A total of 17,075,386 privets were grown, 136,015 small fruit, 678,633 vines, 986,623 roses and 496,590 perennials.

From 1947 to 1954 there was an increase in the following plants grown: Trees, shrubs, privets, vines and roses. There was a decrease in small fruits and perennials grown in the state.

Greater Sales

The total sales, retail and wholesale, in the 1949 census were approximately \$2,000,000, whereas the University of Tennessee survey showed it as \$5,521,000 in 1954.

Regarding employment, the 1949 census showed 1,111 persons working in the nursery industry, compared with 1,893 in the 1954 survey.

Tennessee nursery crops rank eighth in importance in value of production and first in value of production per acre, reported Dr. Zellner.

Further findings showed 70 per cent of total reported sales were at wholesale and 30 per cent at retail. Approximately 57 per cent of total sales were made outside the state of Tennessee.

Of 161 firms answering the question, "By what means do you base the price of your nursery stock," 124 firms said they based their prices on those of large nurseries in the market; 18 firms replied they used a cost-plus method; 19 firms used other methods.

Advertising expenditures amounted to about 3 per cent of total industry expenditures.

Dr. Zellner concluded his report by presenting the favorable and unfavorable factors which would affect the demand situation in the next five or 10 years.

University Research Projects

Dr. B. S. Pickett, head, department of horticulture and forestry, University of Tennessee, reporting on the horticulture department, cited the progress made by the Tennessee Florists' Association in getting re-

Tankard AZALEAS

Several thousand beautiful Kurumes, Glenn Dales, etc., still unsold.

Featuring Hino-crimson, the Azalea that has everything.

BROAD-LEAVED EVERGREENS

Ilex rotundifolia, I. convexa, I. burfordi; Abelia, Ligustrum, Nandina, Osmanthus, Pyracantha, etc



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**CONIFERS, FLOWERING and SHADE TREES, SHRUBS,
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IS THE SIGN OF EXCELLENCE**

THE TANKARD NURSERIES

EXMORE, VIRGINIA

On the Eastern Shore, Del-Mar-Va Peninsula



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search projects started at the university. He used the experience to illustrate how projects can be started within the existing structure of the university.

Dr. Pickett related that a fine student had been selected on the association's scholarship. He added that work on ornamentals has been curtailed, but a number of small projects have been started. Work is being done on a glasshouse cooling system which will reduce the temperature 10 degrees, and it is hoped to go farther. At present there are only three students in horticulture, he pointed out, and hoped this number would be increased.

Entomologist Report

H. L. Bruer, state entomologist, reported on the activities in insect and plant disease control. Japanese beetles, he said, were found in Johnson county last summer, but no nurseries were involved. Approximately 780 acres were treated, although only 35 or 40 acres were infected. It is hoped that the beetles will be eradicated in the next two years.

Near Memphis, he continued, white fringed beetle is present, but it has not been decided whether it will be contained or eliminated. It was first found in the city in 1948, and

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12 to 18 ins.	\$0.75 each	} Add 10% extra for orders less than 100.
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2 to 3 ft.	1.25 each	
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precautions have been taken so it will
not spread.

Mr. Bruer related that when stock
damaged by the freeze in the
Georgia-Carolina peach belt was be-
ing pulled out, crown gall was found.
Since 75 per cent of the stock came
from Tennessee, the peach growers
first blamed that state, but since
then studies of the crown gall have
been started, and it has been found
the best stock comes from Tennessee.

Because of the lack of time, the
panel on retail sales was omitted.

Business Meeting

Concluding the morning and
rounding out convention activities
was a business meeting. Reports were
heard from the necrology, auditing
and resolutions committees. Under
the heading of new business, a motion
was passed that the Tennessee Nurs-
erymen's Association co-sponsor Ten-
nessee nursery night at the Southern
Nurserymen's Association's conven-
tion at Nashville August 19 to 21.

Tom Faulkner asked the members
of the association to consider a sum-
mer meeting, possibly combining it
with the Southern Nurserymen's As-
sociation's trade meet. That plan
would give the association a wider
selection of cities in which it could
hold its annual convention.

An additional thought contributed
by Mr. Faulkner was to have more
than one vice-president in the asso-
ciation and have past presidents
serve on the executive committee. It
was decided the matter would be
studied by the legislative committee
and reported upon at the next meet-
ing.

The final action of the convention
was the election of officers and ex-
ecutive committee and their installa-
tion into office. The selection of next
year's convention site was left to the
executive committee.

Entertainment

A highlight of the convention was
the social functions, starting out
with a welcoming party given by
Cartwright Nurseries Sunday even-
ing. The following evening the
Cultra brothers were hosts at a cock-
tail party. Supplied by the associa-
tion were large orchid corsages for
the ladies and boutonnières for the
men. A buffet dinner, featuring a
huge turkey and roast of beef, was
followed by an evening of dancing.
In the wee small hours, Richard
Jones officiated at the Yellow Dog
initiation.

Monday afternoon was open for
visits to local nurseries or other
points of interest. Approximately 25
nurserymen availed themselves of

TREE SEEDS

	¼ Lb.	1 Lb.
Concolor Fir	\$1.50	\$ 4.50
Norway Spruce	1.10	3.25
White Spruce	1.00	2.50
Colorado Blue Spruce, select blue	2.50	8.50
Japanese Black Pine	1.00	3.00
Austrian Pine	1.00	3.00
Red Pine (resinosa)	4.25	14.00
White Pine, Maine	1.60	5.00
Scotch Pine, France, recommended to hold green color	1.40	4.25
Scotch Pine, Austria, fast-growing	1.60	5.00
Japanese Yew	1.00	2.75

We pay postage on cash orders of
\$10.00 or more, east of the Rocky
Mountains.
Half pounds sold at one-half the
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On orders under \$10.00, please en-
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The Modern Bulb-Package
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GLADS, DAHLIAS, and many other
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Hides nothing—clearly shows size and
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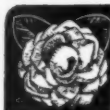
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\$8.00 per 100; \$75.00 per 1000

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FLOWERING CRAB APPLES

ALAMEDA, purple-rose flowers, wine-red fruit

ALMEY, fiery-crimson flowers, maroon fruit

ARROW, purplish-red flowers, red fruit

ATROSANGUINEA, carmine flowers, reddish fruit

BACCATA, white flowers, red or yellow fruit

ELEYI, vinous-red flowers, purplish-red fruit

FLORIBUNDA, rosy-white flowers, yellow and red fruit

FLORIBUNDA PURPUREA, purplish-red flowers, purplish-red fruit

GENEVA, purplish-red flowers

GLORIOSA, purplish-red flowers, bright red fruit

HOPA, rosy flowers, red fruit

MAKAMIK, China rose flowers, purplish-red fruit

NIEDZWETSKYANA, purple-red flowers, bright red fruit

RED SILVER, China rose flowers, purplish-red fruit

SCHEIDECKERI, pale pink flowers, yellow to orange fruit

CORNUS FLORIDA RUBRA

(Pink-Flowering Dogwood)

Growers of a complete line of general nursery stock.

THE SOUTHERN NURSERY AND LANDSCAPE CO., INC.

WINCHESTER, TENN.

Established 1872

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the opportunity to take a bus tour of Cartwright Nurseries, at Collier-ville, 20 miles from Memphis. Due to the excessive moisture, the nursery-men had to view the various fields from the bus, although a tour was made of the packing shed and propagating greenhouses.

A. D. Cartwright, Jr., Cartwright Nurseries, was general chairman of the convention, with B. R. Allison, Highland Rim Nursery, Whitebluff, as assistant. The attractive lobby display was planned and executed by Warren Walker and Robert Boykin, Boxwood Gardens, Germantown; other decorations were also staged by Mr. Walker and Vera Daniel, Vera Daniel Flower Farm, Memphis. Through the arrangement of Edmond G. Greene, Greene Nurseries & Landscape Co., Germantown, a trade exhibit was staged, including displays by several nurseries and supply companies.

R. and S. MAYER have organized the American Forest Nursery, Box 40, R. D. 2, Sinking Springs, Pa., as a retail and wholesale nursery business. Eight and one-half acres are planted in general nursery stock, with 17½ acres not yet under cultivation.

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Tells how to plan, set up and equip a propagating unit. Explains propagation principles, proper handling of soil and detailed procedures for propagating quantities of selected plants.

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CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary

304 MITAU BUILDING

SACRAMENTO 14, CALIF.

PENINSULA CHAPTER

Members of the Peninsula chapter of the California Association of Nurserymen heard about changes in the income tax laws at their February meeting, held at the Old Plantation, Los Altos, Calif. John Keegan, internal revenue agent from San Mateo, was the speaker. After his talk, Mr. Keegan was quizzed by many nurserymen on special income tax problems relating to the industry.

An interesting plant round-table discussion was conducted by Maunsell Van Rensselaer, Saratoga Horticultural Foundation director. Bert Plath, H. Plath & Sons, Inc., San Francisco, showed some new indoor plants, including Hahn's sansevieria; fingered anthurium; *Ficus radicans* variegata; several new peperomias, including Silver Heart, heterophylla, and Emerald Ripples; *Philodendron andreanum*, and Plath's variegated California ivy.

Frank Prouty and Ralph Bernstein, Schmidt Nursery, Palo Alto, showed *Veltheimia viridifolia* and a group of ferns. Ray Burr, W. B. Clarke & Co., San Jose, displayed specimens of *Ardisia japonica*, *Aucuba japonica* Fructo-albo, *Daphne mantenensis* and *Mahonia lomariifolia*.

Mr. and Mrs. Eugene Armstrong, Capital Nursery, Sacramento, were visitors. Other guests included Wes Nichols, Ferry-Morse Seed Co., Mountain View; Don Okamura, El Real Nursery, Santa Clara, and his guest, Henry Yamate, and Gray Hinckley, Orfac Products, Palo Alto.

President Walter Borchers, W. B. Clarke & Co., San Jose, announced that the next meeting would be held at San Mateo.

Willis McGraw, Nursery Metal Pots, Inc., San Francisco, showed an interesting moving picture on the manufacture and use of crimped metal containers. C. J. B.

SAN DIEGO CHAPTER

The Garden room of the Lafayette hotel and club provided the surroundings for a smorgasbord dinner for the first general meeting of the new year of the San Diego chapter of California Association of Nursery-

men. There were 48 members and guests present at the January meeting.

President Frank Dawson reminded members of the nurserymen's institute held each year at the University of California at Los Angeles. The date for this year's session was January 25. A number of the San Diego chapter members planned to attend the course.

John Garretteson, of the Wilbur Ellis Co., Chula Vista, Calif., presented a short program featuring slides of pictures taken on his recent trip to Hawaii and also color pictures taken of insect pests and test plots. The speaker of the evening was Mary J. Wright, representing the San Diego milk council. Her topic was "Cowpaths Through Our Economy."

Dancing in the Mississippi room highlighted the evening.

Fred B. Otto, Sec'y.

TRI-COUNTY CHAPTER

A regular meeting of the Tri-County chapter of the California Association of Nurserymen was held January 27, at Ventura, at the Pierpont Inn, with 30 persons present.

After a short business meeting, Vice-President Dr. Carl B. Wolf, botanist, introduced P. C. Everett, superintendent of Rancho Santa Ana Botanical Gardens, Claremont, who gave an informative lecture on native plants and trees of California, showing colored pictures of many different species. After Mr. Everett's talk, which covered planting instructions, growing habits and best placement of specific plants for healthy growth, there was a lively question period.

The next regular meeting was to be held at California State Polytechnic, San Luis Obispo. Prof. Howard Brown was to plan the program.

Mrs. George Steelman, Sec'y.

SAN JOAQUIN CHAPTER

The January meeting of the San Joaquin chapter of the California Association of Nurserymen was held at Farnesi's, Chowchilla, Calif., January 19.

A motion was introduced and ap-



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O. L. WEEKS

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proved that the chapter hold its meeting on the same night as the midyear C. A. N. directors' meeting. The chapter will be host to the directors as it was so successfully in 1955.

Chapter directors were instructed to go on record as favoring employment of an assistant to the C. A. N. executive secretary, Elmer Merz. A consideration in the duties of the assistant would be the publicity program of the California Association of Nurserymen.

Directors were further instructed to go on record against any increases in dues at the midyear meeting.

The program of the evening was supplied by Willis Stribling, who demonstrated methods of displaying brochures and literature. Sales aids and methods of handling bare-root material were also presented by Mr. Stribling.

The chapter was to meet February 16 at Madera, Calif., for the next meeting. M. E. Gardner, Sec'y.

HEMET WHOLESALE NURSERIES, Hemet, Calif., have acquired land in Bautista canyon and will move facilities there from the firm's present location near Park hill. The company is moving to the new site in order to have room for expansion.

WOODWARD'S GLOBE ARBORVITAE

	Each
6 to 9 ins., B&B	\$0.50
9 to 12 ins., B&B75
12 to 15 ins., B&B	1.00
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Price Each
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Norway Maple

8 to 10 ft., branched \$2.00
6 to 8 ft., branched 1.65

Red Maple (Acer rubrum)

5 to 6 ft., branched 1.35
4 to 5 ft., branched 1.10
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8 to 10 ft., branched 2.50
6 to 8 ft., branched 2.10
5 to 6 ft., branched 1.65

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8 to 10 ft., branched 1.25
6 to 8 ft., branched 1.00
5 to 6 ft., branched85

Ready for immediate shipment, L.C.L. or combination carlots.

52-page wholesale catalog on request.

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Plant Materials Topic At California Institute

By Ed. McNeill

Plants, their uses and adaptability to the various climatic zones of southern California, were the principal topics discussed at the annual nurserymen's institute held in Haines hall on the campus of the University of California at Los Angeles, January 25.

Despite a rainfall of near-record proportions, 230 interested students and members of the trade registered for the conclave, jointly sponsored by the University of California agricultural extension service and the California Association of Nurserymen. Observers considered the turnout remarkable, considering the unfavorable weather conditions. Groups of nurserymen traveled from points as distant as Santa Barbara and San Diego to attend.

Chairman of the day, representing the C. A. N., was James A. Gibbs, manager of Winsel-Gibbs Seed & Nursery Co., Los Angeles. Mr. Gibbs is a former president of the Los Angeles Sunset chapter and has long been active in association affairs. Heading the group from U. C. L. A. was Marston H. Kimball, extension ornamental horticulturist.

As has been the procedure in past institutes, lectures on specific subjects occupied the morning hours, while the afternoon sessions featured panel discussions of questions arising from the material presented in the lectures. Panel members were drawn from both the university and nursery groups.

Plant Materials Pamphlet

Principal subjects discussed were grasses and ground covers; shrubs and trees, fruits, nuts and grapes, with emphasis on the performance of plants from those categories in southern California areas. Pamphlets had been compiled especially for the meeting, describing the adaptability of plant materials, and were distributed to the registrants. Participating in the selection of varieties for the booklets were: Philip E. Chandler, sales manager, Evans & Reeves Nurseries, Inc., Los Angeles; Roland S. Hoyt, landscape architect, San Diego; Maunsell Van Rensselaer, director of the Saratoga Horticultural Foundation, Saratoga, Calif.; Woodbridge Metcalf, extension forester, University of California, Berkeley, and Mildred E. Mathias, department

of botany, and V. T. Stoutemyer, department of floriculture and ornamental horticulture, U. C. L. A.

Climatic Zones

After Mr. Gibbs' welcoming remarks, Marston Kimball opened the program with a talk entitled "Climate and Plants." Pointing out that plants vary in their reaction to the vagaries of climate, he stated that the University of California is working to produce a state-wide climatic map that will enable nurserymen to recommend proper materials for almost any area in the state.

Mr. Kimball divided southern California into five climatic zones: (1) Coastal, or the area close to the

ocean, exposed to direct salt spray, fog, sand, constant winds and, in some cases, domestic water of questionable quality; (2) coastal valleys, the areas near the coast subjected to the ocean influence of cool winds and some fog, but no salt spray or sand, including such sections as most of Los Angeles, Santa Ana and the El Cajon area of San Diego; (3) interior valleys, including Pomona, Pasadena, Hemet, Fillmore, Newhall and most of San Fernando valley, with intense summer heat, low humidity and occasional winter frosts; (4) low-elevation desert, areas below 1,000 feet in elevation, such as Palm-dale and Lancaster, with hot summers, mildly cold winters and low humidity, and (5) middle-elevation desert, such as the Mojave desert sections with 1,000 to 5,000-foot elevations, hot, dry summers and near-zero winter temperatures on occasion. Mr. Kimball pointed out that there can be great variations, however, in the same zones. A chart



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spray, and, in ques-alleys, ted to winds may or most d the 3) in-mona, whall alley, hu-rosts; below Palm-sum-low ation esert ele-ear-occa-that now-hart

showing the general temperature and rainfall averages of the five zones was displayed.

An interesting observation concerning the growing of fruit trees in southern California was offered by Mr. Kimball when he stated that, since the winter of 1923-24, the weather has consistently been 2 or 3 degrees warmer, necessitating the planting of varieties that required less winter chilling for successful fruit production. As a consequence, hybridists have developed many new and more adaptable varieties. The University of California experimental station at Riverside, and Armstrong Nurseries, Inc., Ontario, have led the way in the development.

The next speaker was Victor Younger, department of floriculture and ornamental horticulture, U. C. L. A., who discussed "Grasses for Southern California." A beautiful lawn is important, he stated, because it frames the buildings around it.

Grasses for southern California are divided into two classes, he said. The first group, the warm-season grasses, includes Bermuda, St. Augustine and the zoysias that thrive under extreme conditions of heat, but become dormant in cold weather. The others are classified as the cool-season varieties and include the bluegrasses, fescues and the bent types.

Since the Bermudas comprise the majority of southern California lawn grasses, considerable testing has been done by the university to find improved strains that will shorten the dormancy period and retain good green coloring throughout the year. So far, Mr. Younger stated, the best varieties are U-3, Everglades 3 and T 35-A, but none has retained good color through the winter, although they are greener than the common Bermuda. He illustrated his lecture with colored slides of test plots of the various strains.

Bermudas, he continued, can give an excellent turf if fertilized and watered heavily during the growing season and mowed closely. It was found that sowing annual bluegrass with Bermuda U-3 provided good winter color over a period of years, for the bluegrass reseeded each winter and furnished a good green color through the cold months.

St. Augustine grass has proved unpopular, because of its coarseness, but it has thrived near the coast. Zoysias are not recommended, Mr. Younger stated, due to poor winter color, although they are good summer grasses and in addition are weed and disease-free.

His observations of the cool-season



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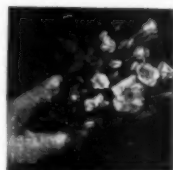


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grasses included Merion bluegrass, which is superior to Kentucky bluegrass, because it persists one to two years longer and looks better, and should be seeded alone. Its disadvantages are its initial cost, slowness in germinating and growing, and tendency to become crowded out by other grasses. Mr. Younger mentioned also the creeping bents, fine-looking, but requiring expensive maintenance. The best strain is the Highland bent. Bent should be seeded with other grasses. He stated that red fescues are good in shaded areas and should be seeded with other grasses. The best strain is the Illahee. Tall fescues make fine-looking turf and have low maintenance cost.

Ground Covers

Speaking on ground covers was Mildred Davis, well-known Santa Monica landscape architect and a plant materials lecturer for the U. C. L. A. extension service. Mrs. Davis is considered an expert on the subject, having grown many of the varieties for resale as well as having planted them extensively in land-

[Continued on page 136]

OREGON NOTES

The Oregon Bulb, Florist and Nursery Council met February 7 with R. N. Perrin, Perrin Gardens, Portland, chairman of the meeting. Attendance at the session was good. C. L. Drew, Drew's Nursery, Beaverton, Ore., was elected chairman for the coming year, and John Weiman, head of the Portland office of the Oregon state department of agriculture, was elected secretary of the council. The council again approved three potential fellowships at Oregon State College this year, the fellowships being earmarked for research work in the nursery, bulb or florists' fields. The experimental work with chrysanthemums done by Dr. E. J. Kraus, horticulture department, Oregon State College, was highly commended by the group. The council was thanked for its work in help-

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ing to procure the new greenhouses for experimental work at the state college. The council is seeking to investigate the establishment in the near future of an additional experiment station. The new station is desired for the northern Oregon area, probably in Multnomah, Clackamas or Washington counties, any one of which is close to the greatest center of population in the state.

Ray W. Gill, proprietor of Gill Bros. Seed Co. and well known to the nursery trade of the Pacific northwest, was eulogized on the front page of the Milwaukie, Ore., Review of February 3 for his outstanding work with the Grange. Mr. Gill recently became master of Russellville Grange, a position which he held 50 years ago when it was first established. He has been Oregon state Grange master for 10 years, an executive committee member for 13 years and on the executive committee of the national Grange for 13 years.

Joe Capizzi, survey entomologist with the Oregon state department of agriculture, recently listed the 10 most destructive insect pests in the state. These are aphids, which he rates as the most destructive of plant pests; mites; cherry fruit flies; codling moths; symphyliids; root weevils; grasshoppers; pear psylla; spruce budworms, and Douglas fir beetles.

The Oregon state department of agriculture has announced that homeowners are experiencing considerable loss of blue spruce ornamentals due to attacks by spruce aphids. The department says that the pest has probably moved into cities from native spruce trees of the forests.

The public relations committee of the Oregon Association of Nurserymen recently scored a major triumph in the Sunday Oregonian farm, home and garden supplement and the Sunday Oregon Journal Northwest Living magazine. Several pages in each of the sections were devoted to the nursery business, with particular regard to the freeze loss of November. In the two newspapers, which contained a variety of articles concerning various ornamentals, the Oregon Association of Nurserymen gave assurance to the public that anything bought by the public through members of the O.A.N. would have the guarantee of the association that it would be satisfactory. The emblem of the O.A.N. was repeatedly run in the two papers, along with the fact that the public should buy where they saw the emblem for full assurance of the quality which was sought. C. H. P.

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Kordus Nursery, Deer Park Ave., Rt. 4, Huntington, L. I., N. Y.

Azalea hinodegiri, potted and in field.
L. E. Herring, 110 High St., Eatontown, N. J.

Sell Stock Quickly and Easily with American Nurseryman Classified Ads.

BERRY PLANTS

RASPBERRY PLANTS

New Durham Everbearing red Raspberry, bears mid-August to mid-October: up to 3/16-in., \$55.00 per 1000; 3/16 to ¼-in., \$65.00 per 1000; ¼-in. up, \$75.00 per 1000. Special prices on lots of 5000 or over.

Amber (yellow) Raspberry, up to 3/16-in., \$100.00 per 1000; 3/16 to ¼-in., \$16.00 per 1000. Supply limited.

Gatineau (very early), Madawaska (very early), Milton (late) and September Everbearing, up to 3/16-in., \$50.00 per 1000; over 3/16-in., \$75.00 per 1000. All prices F.O.B.

Strawberry plants, 40 varieties. Write for free catalog and wholesale price list.

WALTER E. MORSS & SON
Bradford, Mass.

RED RASPBERRY PLANTS

	Per 1000
15,000 Chief, No. 1, 3/16-in. up	\$50.00
6,300 Chief, tr., ¼-in. up	60.00
15,000 Latham, tr., ¼-in. up	65.00
6,000 Milton No. 1, 3/16-in. up	55.00
1,975 Newburg, tr., ¼-in. up	65.00
7,000 Sunrise, No. 1, 3/16-in. up	50.00
650 Sunrise, tr., ¼-in. up	60.00
13,000 Taylor, No. 1, 3/16-in. up	55.00
29,000 Taylor, tr., ¼-in. up	65.00

Boxing at cost.
IVAN R. CONGDON NURSERY
North Collins, N. Y.

STRAWBERRY PLANTS, WELL ROOTED
Double inspected, irrigated. 1000

Dunlap	\$ 7.50
Blakemore	8.50
Robinson	9.00
Armour	10.00
Arrowhead	10.00
Premier	11.00
Pocahontas	12.00
Tennessee Beauty	10.00
Everb. Superfection, Gem, Streamliner	18.00

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ROYAL SEEDLESS GRAPE
(Former new Great Northern seedless blue Grape.) Nearly as large as Concord, but much sweeter, hardier and heavier bearing.

Just as vigorous and healthy. Ripens with Moore's Early, 15 years under test. As hardy as Beta, 2-yr. No. 1, 3 for \$6.00 cash. Plants that die replaced free if reported by August 1.

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STRAWBERRY PLANTS
2 million everbearer plants

GEM, SUPERFECTION, STREAMLINER.
Growers of everbearer plants since 1925.

Write for prices, stating variety and quantity.

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Holland, Mich.

EVERBEARING STRAWBERRY PLANTS
True to name varieties.

Priced per 1000 plants, collect.
20th Century, \$35.00; Streamliner, \$16.00;
Gem and Superfection, \$15.00.

RASPBERRY PLANTS
Latham and Newburg, 1-yr., \$40.00.
Write for prices on large amounts.

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Hamilton, Mont.

RASPBERRY PLANTS
Per 1000

Durham, No. 1 suckers	\$60.00
Durham, No. 2 suckers	45.00
Sodus, purple tips	50.00

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Grand Junction, Mich.

Strawberry and Raspberry plants, grown in western Montana where climate and soil is the best for strong, healthy plants.

Superfection and Gem, \$14.00 per 1000. Streamliner, \$16.00 per 1000. No. 1 Raspberry plants, Latham and Newburg, \$50.00 per 1000. Write for new prices on large amounts.

McNeal Berry Nursery, Hamilton, Mont.

Strawberry plants, double inspected, northern-grown: Dunlap, Blakemore, Giant Robinson, Premier, Bellmar, 1000, \$8.00; 10,000 up, \$7.50 per 1000. Giant Gem, Streamliner, Superfection everbearing, 1000, \$17.00. These are young, healthy, moss-packed plants, guaranteed to reach you in good growing condition.

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SCHWAB GOOSEBERRIES, large as Plums. New seedling (world's largest Gooseberry). Berries often 1½-in. in dia.; highest quality, hardy, very productive, very sweet. Wholesale, 1-yr., heavy, \$4.50 per 10; 2-yr., light, \$6.00 per 10 bearing size, \$7.50 per 10. 5 per cent discount for cash or free baling. Plants that die replaced at half price.

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220 N. 5th St. Mankato, Minn.

Certified Strawberry plants: Blakemore, Premier and Tennessee Supreme, \$6.00 per 1000. Gem Everbearing, \$8.00 per 1000. Sam Pack Nurseries, R. 5, Smithville, Tenn.

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DAHLIAS

LARGE FLOWERING

Avalon, yellow	12c
Commando, deep lavender	18c
D-Day, rose-pink	18c
Florists' Beauty, red, white edges	20c
Gallant Fox, brilliant red	12c
Gertrude Brinton, brick red	18c
Golden Eclipse, yellow	15c
Imp. Franco LaRocco, deep yellow	15c
Jane Cowl, bronze-yellow	25c
Jean Kerr, white	10c
Jersey's Beauty, pink	20c
Lady in Red, Red (Cactus)	25c
L. Toreador, deep red	12c
Michigan White, white	20c
Mrs. James Albion, lemon-yellow	15c
Mrs. L. de V. Warner, lavender	15c
N. Y. Market, white shaded lavender	20c
Ogden Reid, pink, rose and lavender	20c
Orange Flame, reddish orange	20c
Queen City, scarlet and pink	25c
Ruby Taylor, red	25c
Scarlet Gem, bright red (single)	25c
Supt. Amhryn, lavender and pink	15c
Victory, pink	20c
White King, white	15c

MINIATURE FLOWERING

Lemon Drop, yellow	15c
Lily Belle, pink	20c
White Fawn, white	15c

POMPON FLOWERING

Bronze Beauty, bronze	15c
Cardinal, deep red	20c
Golden Queen, rich yellow	15c
Little Herman, red and white	12c
Mary Muns, lavender	12c
Morning Mist, white and lavender	12c
Peggy Wood, white and red	12c
Rothout, bright red-scarlet	15c
Yellow Gem, cream-yellow	12c

Minimum order \$5.00.

Not less than 5 of a variety.

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ILL. RIVER VALLEY'S FINEST GLADS

Priced per 1000; 250 same rate.

3,000 No. 1 BOULOGNE, red	\$28.00
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6,000 No. 2 COL. ATKINSON, lav.	24.00
15,000 No. 1 E. THE QUEEN, lav.	24.00
3,000 No. 2 E. THE QUEEN, lav.	20.00
7,000 No. 1 EVANGELINE, pink	24.00
5,500 No. 1 P.L. NIGHTINGALE, wht.	24.00
7,000 No. 1 P.L. NIGHTINGALE, wht.	20.00
15,000 No. 1 FRIENDSHIP, pink	24.00
15,000 No. 2 FRIENDSHIP, pink	20.00
2,000 No. 1 OCT. SUNSHINE, orange	28.00
1,000 No. 2 OCT. SUNSHINE, orange	24.00
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7,500 No. 1 WHITE GODDESS	24.00

Terms: Cash with order, or 25 per cent deposit, balance c.o.d. Stock subject to prior sale. All stock state inspected.

PERKINS GLADIOLUS
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GROWING INSTRUCTIONS FREE

Selected Belgian-grown bulbs.

DOUBLE CAMELLIA-FLOWERING

Red, orange, salmon, yellow,

scarlet, pink, copper, white, mixed.

EXHIBITION SIZE	Per 100 Per 1000
2-in.	\$14.00 \$130.00
2 1/2-in.	13.00 120.00
1 1/2 to 2-in.	9.00 75.00
1 1/4 to 1 1/2-in.	8.00 70.00

DOUBLE FIMBRIATA (Carnation-type).

6 separate colors or mixed.

DOUBLE PENDULA, in 6 colors.

Double CAMELLIA MARMORATA,

ROSEBUD

TOP SIZE \$15.00 \$140.00

FIRST SIZE \$12.00 \$110.00

Minimum order \$10.00.

Cash with order. F.O.B. Battle Creek, Mich.

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Route 5 Battle Creek, Mich.

GLAD BETS. CLEAN, TRUE TO NAME

Per bu.: 12 bu. E. C. Cole, 4 bu. Golden

Arrow, \$10.00. 15 bu. Lady Jane, 4 bu. My

Dear, \$12.00. 5 bu. F. Nightingale, 10 bu.

Magnolia, \$15.00.

MAGNOLIA STATE FLOWER GROWERS

R. 3, Box 257 McComb, Miss.

TUBEROUS-ROOTED BEGONIAS

Double Camellia-flowering: Red, scarlet, pink, yellow, white, copper, salmon-orange. 2½-in. up \$14.00 per 100, \$130.00 per 1000
2-in. up 12.50 per 100, 115.00 per 1000
1½ to 2-in. 8.50 per 100, 75.00 per 1000
1¼ to 1½-in. 5.50 per 100, 47.50 per 1000
Total 500 bulbs at 1000 rate.

50 mixed, 2-in. up, \$6.50; 50 mixed, 1½ to 2-in., \$4.50. Special, 100 bulbs, total 8 colors: 20 red, 20 scarlet, 10 bulbs of 6 other colors. Labeled separate. Size: 2½-in. up, \$14.25; 2-in. up, for \$12.75; 1½ to 2-in., for \$8.75; 1¼ to 1½-in., for \$6.75. Prices postpaid if check with order.

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Box 743 New London, Conn.

GIANT TUBEROUS BEGONIAS

Double-flowering Camellia-type, 8 colors. 1¼ to 1½-in. \$ 5.50 per 100, \$45.00 per 1000
1½ to 2-in. 8.50 per 100, 75.00 per 1000
2-in. up 12.50 per 100, 115.00 per 1000
3-in. up 25.00 per 100, 200.00 per 1000
Double-flowering Carnation-type, 6 colors. 1¼ to 1½-in. \$ 7.50 per 100, \$60.00 per 1000
1½ to 2-in. 11.50 per 100, 100.00 per 1000
2-in. up 15.00 per 100, 140.00 per 1000
Minimum order \$5.00.

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FANCY-LEAVED CALADIUMS

Over 50 of the finest commercial varieties, fully upgraded. 100 1000
No. 3, ¾ to 1½-in. \$ 7.00 \$ 60.00
No. 2, 1 to 1½-in. 12.00 110.00
No. 1, 1½ to 2½-in. 18.00 160.00
Jumbo, 2½ to 3½-in. 25.00 230.00
Mammoth, 3½-in. up 37.00 350.00
Minimum order \$5.00.

Send for our color chart of 44 varieties.

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SOUTHERN OREGON GROWN GLADIOLI
Our wholesale lot of Gladioli bulbs includes sixty varieties suitable for cut flower growers or for sale to home gardeners. All are high-crowned bulbs grown in the Grants Pass area. Your problems will receive our personal attention.

Send for our list now.

WE DO NOT SELL CUT FLOWERS.

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GLOXINIAS

The best commercial varieties. Per 100 Per 1000
1¼ to 1½-in. \$ 7.50 \$ 65.00
1½ to 2-in. 14.00 130.00
2 to 2½-in. 22.00 195.00
Mammoth 2½-in. up 35.00 300.00
Minimum order \$5.00.

LOUIS DANK

1170 Broadway New York 1, N. Y.

A NEW BULB LIST EVERY MONTH!

WHOLESALE ONLY!

COMMERCIAL VARIETIES OF FLOWER

BULBS ALL THROUGH THE YEAR!

OUR LIST IS READY FOR THE ASKING.

MAILINGS EVERY DAY!

NEW GLADIOLI

AND OTHER BULB LISTINGS.

READY NOW.

HARTFORD FARMS, HARTFORD, MICH.

SPRING AND FALL BULBS.

WRITE NOW.

J. AMAND, BREEZAND, HOLLAND.

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BOXWOOD

True dwarf Old English, for bordering flower beds and walks. Field-grown, compact, good color.

4-yr.-old, 4 to 6 ins., \$25.00 per 100.

PINKSTON NURSERIES

Parrott, Ga.

BOXWOOD

True dwarf (suffrutescens), well rooted, from sand, roots packed in moss.

\$7.00 per 100, \$30.00 per 500.

Packing free. Ready now.

DOTY & DOERNER, INC.

6691 S. W. Capitol Highway, Portland 19, Ore.

CAMELLIAS

CAMELLIA SASANQUA

Strong, healthy 1 and 2-year liners. Good roots and tops.

Per 100 6 to 8 ins. \$ to 12 12 to 18

*Shishigashira \$20.00 \$25.00

*Sowa-no-sakae 20.00 25.00

Pink Snow, 2½-in. pots. 25.00 30.00

Cleopatra \$12.50 15.00 20.00

Dawn, 2-yr., B.B. 25.00

from 3-in. pots. 25.00

Hinode-gumo 15.00 20.00

Mine-no-yuki 15.00 20.00

*These should definitely bloom next fall.

For those who may prefer potted liners, we have most of the above varieties, as well as others, available in pots, at only 5c per plant more for each size than the bed-grown liners. Write for more complete listing and descriptions.

COTTAGE HILL NURSERY

4000 Japonica Lane Mobile, Ala.

CAMELLIA SASANQUA

IN 1 GAL. CONTAINERS.

Very nice for retail sales or garden centers. Cleopatra, Day Dream, Crimson Bride, Slenderlee, \$1.00 each. Also Floribunda, Olefera, Cleopatra, Day Dream, in 3-in. bands for lining-out, 45c each. Cash F.O.B. Packing at cost.

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Route 13 Onley, Va.

CHRYSANTHEMUMS

HARDY CHRYSANTHEMUMS

Rooted cuttings	Each
Admiration	\$0.10
Crown Jewel	.06
Cutie	.05
Flaxen Beauty	.06
Gondolier	.09
Holiday	.06
Huntsman	.06
Lee Powell	.06
Malinda Brown	.06
Masquerade	.06
Pathfinder	.08
Plainsman	.08
White Cloud	.05
Yellow Supreme	.05

Write for list.

EDWARD GILSON & SON NURSERY

U. S. Rt. 20 Perry, O.

COLORFUL HARDY MUMS

Tested newer varieties

Proved introductions of merit

Propagated from unprotected, wintered-out, field-grown plants. Nature's way of producing strong, healthy stock for all outside plantings.

Truly Hardy Garden Chrysanthemums

Special lath house and full sun hardened

rooted cuttings, used on all orders for late

spring and summer planting. Shipping season

March to July. Complete variety listing on request.

PRAIRIE SOUTHWEST FLORETUM

Fall River, Kan.

HARDIER MUMS ARE HERE

New Hampshire University's new Granite

Series Mums are really rugged. These and

other proven varieties. List.

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HARDY CHRYSANTHEMUMS

Send for our 1956 catalog.

Cultural notes on cut flowers and pot plants.

C. C. BREECE, R. 2, Delaware, O.

COTONEASTERS

COTONEASTER PRAECOX

This is one of the hardest Cotoneasters

which went through 20 degrees below zero

without any harm. It has large berries like

crabapples which color up in the middle of

August and remain on until very late fall.

It grows rather flat and makes an ideal

plant to combine with foundation plantings,

especially with ranch-type houses. We can

offer the following for 1956, 3-yr. transplants,

15 to 18 ins., \$55.00 per 100, \$750.00 per 1000.

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Turner Rd. Newport, R. I.

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DAISIES, STRONG FIELD DIVISIONS

Easter Read	\$6.50 per 100
Majestic	7.00 per 100
Marconi, double	7.00 per 100
Snow Queen, semi-double	7.00 per 100
H. Read, dbl. Dahlia type (pat.)	30.00 per 100
Wirta's Supreme, heavier	25.00 per 100

F.O.B. San Marcos, Packing free.

SARVER NURSERY, San Marcos, Calif.

EVERGREENS

EVERGREENS

Heavy rooted cuttings for spring delivery

	100 1000
Taxus cuspidata (spreaders)	\$10 \$ 90
Taxus cuspidata capitata	12 110
Taxus cuspidata nana	11 100
Taxus media	10 90
Taxus media andersoni	10 90
Taxus media browni	11
Taxus media hatfieldi	11 100
Taxus media hicksii	10 90
Taxus media humberti	10 90
Taxus media columnaris (Moon's)	10 90
Taxus media pyramidalis	10 90
Taxus media wardii	11 100
Taxus media wymanii	10 90
Juniperus chin. pfitzeriana	11 100
Juniperus chin. glauca hetsi	10 90
Juniperus comm. hibernica fast.	10
Juniperus comm. horiz. plumosa	10 90
Juniperus comm. suecica nana	10
Thuja occ. pyramidalis	10 90
Thuja occ. recurva nana	10
Thuja occ. woodwardii	10 90
Thuja occ. conica densata	10

Priced F.O.B. Red Bank, N. J.

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P. O. Box 562 Red Bank, N. J.

Representative for: J. Blaauw & Co., Bos-

koop, Holland.

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EVERGREENS
ROOT-PRUNED AND TRANSPLANTED.
25 at 100 rate; 250 at 1000 rate.
TERMS: As per our published list which
includes satisfactory credit or cash with
order, N.O.C.O.D.

YOU WILL LIKE OUR PLANTS.

Each, 10 100 1000

JUNIPERUS ANDORRA PLUMOSA

(Andorra Juniper)

15 to 18 ins., T.T.T. \$0.90 \$0.80 \$0.75

12 to 15 ins., T.T.T.75 .70 .65

9 to 12 ins., T.T.T.60 .55 .50

JUNIPERUS HETZI (Hetz Blue Juniper)

15 to 18 ins., T.T.T. 1.10 1.00 .90

12 to 15 ins., T.T.T.85 .80 .75

JUNIPERUS HIBERNICA FASTIGIATA

(Irish Juniper)

12 to 15 ins., T.T.T.60 .55 .50

9 to 12 ins., T.T.T.50 .45 .40

JUNIPERUS KOSTERI (Koster Juniper)

12 to 15 ins., T.T.T.80 .75 .70

JUNIPERUS FITZGERIANA

(Pfitzer Juniper)

12 to 15 ins., T.T.T.85 .80 .75

9 to 12 ins., T.T.T.65 .60 .55

6 to 9 ins., T.T.T.45 .40 .35

JUNIPERUS SABINA (Savin Juniper)

15 to 18 ins., T.T.T. 1.10 1.00 .90

12 to 15 ins., T.T.T.85 .80 .75

9 to 12 ins., T.T.T.65 .60 .55

6 to 9 ins., T.T.T.45 .40 .35

JUNIPERUS VIRGINIANA

(Eastern Red Cedar)

2 to 3 ft., R.P.55 .50 .45

18 to 24 ins., R.P.45 .40 .35

9 to 12 ins., R.P.15 .13 .10

6 to 9 ins., R.P.10 .08 .06

2 to 3 ft., T.T.T.95 .85 .75

18 to 24 ins., T.T.T.60 .55 .50

PICEA CANADENSIS ALBA

(White Spruce)

12 to 15 ins., R.P.20 .18 .15

9 to 12 ins., R.P.13 .10 .08

6 to 9 ins., R.P.10 .08 .06

PICEA EXCELSA (Norway Spruce)

12 to 15 ins., R.P.20 .18 .15

9 to 12 ins., R.P.13 .10 .08

6 to 9 ins., R.P.10 .08 .06

PINUS BANKSIANA (Jack Pine)

18 to 24 ins., R.P.30 .25 .20

PINUS EDULIS (Nut Pinon Pine)

6 to 9 ins., R.P.10 .08 .06

PINUS NIGRA (Austrian Pine)

12 to 15 ins., R.P.30 .25 .20

9 to 12 ins., R.P.12 .10 .08

6 to 9 ins., R.P.09 .07 .05

PINUS PONDEROSA (Bull Pine

or Western Yellow Pine)

12 to 15 ins., R.P.30 .25 .20

9 to 12 ins., R.P.12 .10 .08

6 to 9 ins., R.P.09 .07 .05

PINUS STROBUS

(Northern White Pine)

6 to 9 ins., R.P.10 .08 .06

PINUS SYLVESTRIS (Scotch Pine)

12 to 15 ins., R.P.17 .15 .12

9 to 12 ins., R.P.10 .08 .07

6 to 9 ins., R.P.08 .06 .05

THUJA OCCIDENTALIS WOODWARDI

(Woodward Globe)

9 to 12 ins., T.T.T.50 .45 .40

6 to 9 ins., T.T.T.40 .35 .30

THUJA ORIENTALIS COMPACTA

(Chinese Arborvitae)

9 to 12 ins., R.P.20 .17 .15

POTTED AND CANNED EVERGREENS

Each, 10 100 1000

EUONYMUS ALATUS COMPACTUS

1-gal. cans, 12 to 15 ins. \$1.20 \$1.10

4-in. pots, 9 to 12 ins.85 .75

EUONYMUS COLORATUS

(Purple-leaved winter creeper)

5-in. pots75 .70

4-in. pots60 .50

PLUMFIELD NURSERIES, INC.

Fremont, Neb.

ROOTED CUTTINGS AND LINERS

Each, 100 1000

Arborvitae, Globe \$0.09 \$0.08

Arborvitae, green Niagara09 .08

4 to 8 ins.09 .08

Arborvitae, Pyramidal, 4 to 8 ins.11 .10

Juniper, Hetz, 4 to 8 ins.11 .10

Juniper, Pfitzer, 4 to 8 ins.11 .10

Taxus andersoni, 6 to 8 ins.10 .09

Taxus browni10 .09

Taxus capitata (leaders),

4 to 8 ins.14 .12

Taxus cuspidata, 6 to 8 ins.09 .08

Taxus hicksi, 6 to 8 ins.09 .08

1-YR. TRANSPLANTS

Taxus cuspidata, 6 to 8 ins.15 .14

Taxus capitata, 6 to 10 ins.24 .22

Taxus hicksi, 6 to 10 ins.15 .14

2-YR. TRANSPLANTS

Arborvitae, green Niagara25 .22

8 to 12 ins.22 .20

GRAFTED SPRUCE, 2 1/2-IN. POTS

Koster Blue Spruce, each, \$1.25

GRAFTED JUNIPER, 2 1/2-IN. POTS

Each, 10 100

Juniperus burkii \$0.60 \$0.55

Juniperus canari60 .55

50 of a variety at 100 rate.

300 of a variety at 1000 rate.

BOXING AT COST.

DRAKE'S NURSERIES

G-4342 Branch Rd. Flint, Mich.

EVERGREENS, SPRING DELIVERY, 1956

ROOTED CUTTINGS

Arborvitae, American, 6 to 8 ins. \$5.00 \$70.00

Arborvitae, Globe, 5 to 6 ins. 8.00 70.00

Arb., elegantissima, 5 to 6 ins. 3.00

Arb., pyramidalis, 6 to 8 ins. 8.00

Baltic Ivy, 6 to 8 ins. 6.00 50.00

Euonymus fortunei carrierei, 7.00 60.00

6 to 8 ins.7.00 60.00

Euonymus radicans vegetus, 7.00 60.00

6 to 8 ins.7.00 60.00

Euonymus patens (large leaf), 7.00

6 to 8 ins.7.00

Ilex crenata hetzi, 5 to 6 ins. 8.00 70.00

Juniperus (Andorra) plumosa, 6 to 8.00 70.00

8 ins.8.00 70.00

Juniperus glauca hetzi, 6 to 8 ins. 8.00 70.00

Juniperus communis hibernica 8.00 70.00

(Irish), 5 to 6 ins.8.00 70.00

Juniperus communis suecica nana, 8.00 70.00

(dwarf Swedish), 4 to 5 ins. 8.00 70.00

Juniperus stricta (Spiny Creek), 8.00 70.00

Taxus cuspidata, 5 to 6 ins. 9.00 80.00

Retinosporas, 6 to 8 ins. 8.00 70.00

Retinospora aurea, 5 to 6 ins. 8.00 70.00

Taxus cuspidata andersoni, 9.00 80.00

5 to 6 ins.9.00 80.00

Taxus media browni, 5 to 6 ins. 9.00 80.00

Taxus cuspidata, 5 to 6 ins. 9.00 80.00

Taxus cuspidata wymani, 9.00

5 to 6 ins.9.00

Taxus hatfieldi (upright), 9.00 80.00

5 to 6 ins.9.00 80.00

Taxus media hicksi, 5 to 6 ins. 9.00 80.00

Taxus media wardi, 5 to 6 ins. 9.00 80.00

1-YR. TRANSPLANTS Each, 100 1000

Arborvitae, American, 6 to 9 ins. \$0.20

Ilex crenata, 5 to 6 ins.25

Juniperus communis suecica nana,30 .25

4 to 6 ins.30 .25

Juniperus glauca hetzi,25 .20

8 to 10 ins.22 .18

Retinosporas, 8 to 10 ins.30 .25

Taxus media browni, 5 to 6 ins.30 .25

Taxus cuspidata, 6 to 10 ins.25 .20

Taxus cuspidata capitata,35 .30

6 to 10 ins.35 .30

2-YR. TRANSPLANTS

Arborvitae, American, 8 to 10 ins.30

Juniperus glauca hetzi,35 .30

10 to 12 ins.35 .30

Euonymus radicans vegetus,25 .20

8 to 10 ins.40

Retinosporas, 10 to 15 ins.40

Taxus cuspidata, 10 to 12 ins.35 .30

Taxus hatfieldi (upright),35 .30

8 to 10 ins.35 .30

Taxus media hicksi, 8 to 10 ins.35 .30

Terms: Orders under \$100.00, cash with

order, please. Orders over \$100.00, 1/2 deposit

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NIDEIS'S NURSERY & GREENHOUSE

Mtd. Rt. 4, Haddon Heights Oil City, Pa.

EVERGREENS

Chamaecyparis plumosa, 12 to 15

ins. \$0.80 to \$1.30

plumosa aurea, 12 to 15 ins.80 to 1.50

to 18 to 24 ins.80 to 1.50

plisifera aurea, 12 to 15 ins.80 to 1.50

allum 1.00 to 1.60

2 to 2 1/2 ft.80 to 1.75

Juniper, Andorra, 12 to 15 ins.80 to 1.75

to 2 1/2 to 3 ft.80 to 1.50

Juniperus hibernica, 15 to 18 ins. 1.30 to 1.75

to 2 to 2 1/2 ft. 1.30 to 1.75

glauca hetzi, 10 to 12 ins.80 to 1.50

to 2 to 2 1/2 ft.80 to 1.50

Thuja occidentalis globosa, 10 to

12 ins. to 15 to 18 ins.80 to 1.50

occidentalis pyramidalis, 15 to

18 ins. to 2 1/2 to 3 ft.80 to 1.75

nana aurea, 10 to 12 ins. 1.00 to 1.50

15 to 18 ins. 1.00 to 1.50

Ilex bullata, 10 to 12 ins. to

15 to 18 ins. 1.10 to 2.00

Euonymus japonicus, 15 to 18 ins.

to 2 to 2 1/2 ft. 1.00 to 1.75

japonicus variegatus, 12 to 15

ins. to 15 to 18 ins. 1.00 to 1.50

patens, 18 to 24 ins. to

2 1/2 to 3 ft. 1.00 to 1.75

Weigela, variegated; 18 to 24

ins. to 2 to 2 1/2 ft.75 to 1.00

Eve Rathke, 18 to 24 ins. to

2 to 2 1/2 ft.75 to 1.00

Rhododendron Roseum Elegans, 2.75 to 4.25

12 to 15 ins. to 2 to 2 1/2 ft. 1.25 to 2.00

Perla japonica, 12 to 15 ins.60 to .80

to 15 to 24 ins.60 to .80

Buxus suffruticosa, 6 to 8 ins.60 to .80

to 8 to 10 ins.60 to .80

Cornus florida rubra, 3 to 4 ft. \$4.00, \$5.00, \$6.00

4 to 5 ft., 5 to 6 ft. \$4.00, \$5.00, \$6.00

IN POTS

Abelia grandiflora, \$1.00 to \$1.00; Cotone-

DELIVERY, SPRING 1956

150	Euonymus coloratus, 2½-in. pots	\$.12
400	Euonymus carrierei, 2½-in. pots	.12
200	Euonymus patens, 2½-in. pots	.12
400	Euonymus vegetus, 2½-in. pots	.12
100	Elaeagnus pungens, 2½-in. pots	.15
210	Ilex crenata rotundifolia, 2½-in. pots	.17
150	Ilex East Palatka, 2½-in. pots	.17
400	Juniper, Andorra, 1-yr., 2½-in. pots	.17
550	Juniperus hetzi, 1-yr., 2½-in. pots	.17
250	Lauroceraus schipkaensis, 2½-in. pots	.20
200	Ligustrum neolanceum, 2½-in. pots	.20
107	Pyracantha lalandi, 2½-in. pots	.17
115	Viburnum burkwoodii, 2½-in. pots	.15
65	Viburnum rhytidophyllum, 2½-in. pots	.20
150	Ilex convexa, transplants	.25
300	Tsuga canadensis, TT, "C" Clover-seed, very heavy	.75

FINISHED STOCK

200	Huxus suffruticosa, B&B, 8 to 10 ins.	\$.95
140	Huxus suffruticosa, B&B, 10 to 12 ins.	1.10
200	Berberis mentorensis, br. 15 to 18 ins.	.50
145	Berberis mentorensis, br. 18 to 24 ins.	.65
60	Elaeagnus umbellatum, br. 4 to 5 ft.	.85
250	Juniperus pfitz., B&B, 18 to 24 ins.	1.75
30	Juniperus pfitz., B&B, 24 to 30 ins.	2.25
50	Juniperus hetzi, B&B, 18 to 24 ins.	1.50
250	Juniperus hetzi, B&B, 30 to 36 ins.	2.50
25	Juniper (Nash's Compact Pfitzer), 24 to 30 ins.	2.50
50	Ligustrum nepalense, B&B, 18 to 24 ins.	1.50
20	Magnolia liliiflora, B&B, 5 to 6 ft.	3.75
75	Populus italica nigra, br. 7 to 9 ft.	.95
100	Salix (dwarf Arctic Willow), br. 15 to 18 ins.	.35

Terms: Cash

Small orders, include prepaid parcel post; otherwise we ship express collect.
THE LEICHHARDT HILLVIEW NURSERY
 Phone 2-2441
 Nashville Rd. Bowling Green, Ky.

EVERGREEN LINERS

	Each, 100	1000
PFITZER JUNIPER		
2½-in. pots, 1-yr.	\$.018	\$.015
2½-in. pots, 1-yr. (heavy)	.22½	.18½
2½-in. pots, 2-yr.	.27½	.22½
Field-grown, 1-yr.	.30	.25
Field-grown, 2-yr.	.45	.40
Rooted cuttings	.12	.10
BLUE PFITZER JUNIPER		
2½-in. pots, 1-yr.	.25	.20
Rooted cuttings	.13	.12
ARMSTRONG PFITZER JUNIPER		
2-in. pots, 1-yr.	.22½	.18½
2-in. pots, 2-yr.	.26½	.22½
Field-grown, 3-yr.	.45	.40
HETZ GLAUCIA JUNIPER		
2½-in. pots, 1-yr.	.22½	.18½
TAXUS COLUMNARIS		
2½-in. pots, 1-yr.	.20	.15
PYRAMIDAL ARBORVITAE		
Field-grown, 4-yr.	.60	.55
WOODWARD GLOBE ARBORVITAE		
2½-in. pots, 1-yr.	.20	.16½
Field-grown, 1-yr.	.60	.55
Field-grown, 2-yr.	.32½	.27½
COMPACT BIOTA ARBORVITAE		
Field-grown, 2-yr.	.40	.35
EXCELSA ARBORVITAE		
Field-grown, 2-yr.	.40	.35
Field-grown, 3-yr.	.32½	.27½

TERMS: Cash with order, free packing.
 Orders for spring held for ¼ deposit.
 300 plants of one variety at 1000 rate
 Not less than 50 of a variety.
VOGE NURSERY
 New Lebanon, O.

HEAVY ROOTED CUTTINGS

	Per 100	Per 1000
Arborvitae, dark green American.		
6 to 10 ins.	9.00	80.00
Arborvitae, Glos, 4 to 8 ins.	9.00	80.00
Arborvitae, waresana, 6 to 10 ins.	10.00	90.00
Juniper, Blue Moon (Pfitzer), 6 to 10 ins.	9.00	80.00
Juniperus hetzi glauca, 6 to 10 ins.	9.00	80.00
Juniper, Savin, 6 to 10 ins.	9.00	80.00
Juniper, Von Ehrhorn, 6 to 10 ins.	9.00	80.00
Juniper, Andorra, 6 to 10 ins.	9.00	80.00
Juniper, Pfitzer, 6 to 8 ins.	9.00	80.00
Taxus cuspidata, 6 to 10 ins.	10.00	90.00
Taxus hicksii, 6 to 10 ins.	10.00	90.00

Spring delivery. Cash with order earns free packing.

DE WINTER'S NURSERY

653 Port Sheldon Rd.
 Grandville, Mich.

QUALITY LINERS

	Per 100
Douglas Fir, 4 to 8 ins., tr.	\$.15.00
Colorado Blue Spruce, 4 to 8 ins., tr.	15.00
Balsam Fir, 4 to 6 ins., tr.	15.00
Blue Atlas Cedar, 6 to 12 ins., edg.	15.00
Mugho (dwarf) Pine, 3 to 5 ins., tr.	17.50
Canadian Hemlock, 4 to 8 ins., tr.	20.00
Enkianthus camp., 8 to 12 ins., tr.	25.00
American Holly, 8 to 12 ins., tr.	27.50
Taxus, best ass't var., 6 to 8 ins., tr.	25.00
Fr. hybrid Lilacs, 6 to 12 ins., grafts	27.50
Ilex crenata, 8 to 12 ins., tr.	32.50
Rho. hybrids, Fr. red seed, 4 to 10 ins.	45.00
Pink fir, Dorwood, 10 to 15 ins., grafts	75.00
Magnolias, pink and red, 8 to 15 ins., tr.	75.00
Red Japanese Maple, 1-yr. grafts	85.00

Send for new spring list

POSSUM HOLLOW NURSERIES

6909 Henley St. Philadelphia 19, Pa.

SPRUCE, PINE SEEDLINGS

	100	1000
Colorado Blue Spruce, 3-yr.		
4 to 8 ins.	8.00	\$40.00
White Spruce, 3-yr., 6 to 12 ins.	6.00	35.00
Norway Spruce, 2-2 Tr.		
6 to 14 ins.	10.00	70.00
Red Pine, 4-yr., 8 to 18 ins.	5.00	35.00
Juniperus glauca hetzi, 2-yr., T.		
6 to 12 ins.	30.00	....
Andorra Juniper, 2-yr., T.		
5 to 10 ins.	35.00	....
Spreading Jap. Yew, 2-yr., T.		
4 to 8 ins.	30.00	....

Write for complete 1956 price list.
PAINT CREEK NURSERIES
 R. F. D. 1 Shippensburg, Pa.

ROOTED CUTTINGS

Shipped in air-tight plastic bags.
 Spring shipment only.
 Let us book your order early. These will be top-quality, well-rooted plants. Less than 250, add 2c per plant.

	Each
Euonymus radicans, upright (Sarcocoe)	\$.07
Euonymus patens, LL	.05
Euonymus patens, SL	.05
Juniperus pfitzeriana	.07
Juniperus excelsa stricta	.07
Juniperus glauca hetzi	.07
Juniperus Irish fastigiata	.07
Juniper, Andorra	.07

PEACE & SON NURSERY
 P. O. Box 304 Siloam Springs, Ark.

WHITE PINES

(Pinus strobus.)

For future timber and land conservation. We have to offer 10,000 collected White Pines, running 5 to 7 ft., suitable for growing into a forest. These are thin trees as to branches, but are straight and single stemmed. Can deliver anywhere within a radius of 800 miles in trailer. Lots of 400 to 500, \$2.50 each, dug with a ball and twined.

Prices on heavier stock for landscaping quoted on request.

ANTHONY LAKE NURSERY, INC.
 Pineola, N. C.
 Phone Republic 3-4542

B&B STOCK

	25 rate, each
Pyramidal Arborvitae, 3 to 3½ ft.	\$.275
Am. Arborvitae, 3 to 3½ ft., dark green	.275
Woodward Globe Arborvitae, 15 to 18 ins.	2.00
Pfitzer Juniper, 18 to 24 ins.	2.00
Compact Pfitzer Juniper, 18 to 24 ins.	2.75
Gold Tip Pfitzer Juniper, 18 to 24 ins.	2.00
Hetz glauca Juniper, 24 to 30 ins.	2.50
Ilex rotundifolia, 18 to 24 ins.	3.25
Mahonia aquifolium, 18 to 24 ins.	3.75
Taxus andersonii, 18 to 24 ins.	3.50
Euonymus alatus compactus, 2½ to 3 ft.	2.50

Complete list on request.
HILL PARK NURSERY, Center Point, Ind.
 Seventeen miles east of Terre Haute.

B&B EVERGREENS

	Per 100	Per 1000
200 Pfitzer Juniper, 18 to 24 in.	\$.275	\$3.00
200 Spiny Greek Junipers, 18 to 24 in.	2.75	....
200 Pyramidal Arborvitae, 36 ins.	2.50	....
100 American Arborvitae, 3 to 4½ ins.	3.00	4.00

Sheared and transplanted several times.
 Will sell above in block at discount.
 Pick up at nursery.
CHANOSKI NURSERY
 R. D. 1 Jeannette, Pa.
 Phone: La 3-4691

JUNIPER GRAFTS

We are making the following varieties: Canari, glauca, burki, keteleeri, Dundee, hetzi and Pfitzer, also other varieties. Prices, 40c each, regardless of number ordered. Terms: One-fourth cash with order, balance before shipping date, plus packing charges at cost. All cash with order earns free packing. Only virginiana understock used.

T. C. CRUME NURSERY & LANDSCAPING CO.
 Highway 42 Florence, Ky.
 Phone Atlantic 3-2361

EVERGREEN LINERS

	Per 100
Taxus cuspidata, 2-yr., T.	\$.25.00
3-yr., 8 to 10 ins.	30.00
3-yr., 10 to 12 ins.	35.00
Taxus hicksii, 2-yr., T.	25.00
3-yr., T. 8 to 10 ins.	30.00
Taxus brownii, 2-yr., T.	30.00
Taxus baccata, 2-yr., T.	30.00

Free packing if cash accompanies order, or one fourth with order, rest C.O.D.
LITTLE MOUNTAIN VIEW NURSERIES
 Rt. 54 Mentor, O.

PFITZER JUNIPER

Fine, unrooted cuttings, 12 in. long, \$15.00 per 1000; same stock, 8 to 10 ins., \$10.00 per 1000.

Express only. Cash.

KRONE'S FLOWER SHOP & NURSERY
 4221 Grand Ave. Fort Smith, Ark.

NANDINA SEEDLINGS

	Per 100
1-yr., 4 to 6 ins.	\$.50
2-yr., 8 to 10 ins.	10.00
3-yr., 12 to 15 ins.	15.00

PINKSTON NURSERIES

Parrott, Ga.

EVERGREENS

	Per 1000
Scotch Pine, 2-yr., 2 to 4 ins.	\$.10.00
Scotch Pine, 2-yr., 4 to 8 ins.	20.00
Scotch Pine, 3-yr., 8 to 14 ins.	30.00
Austrian Pine, 2-yr., 3 to 6 ins.	20.00
Red Pine, 2-yr., 3 to 5 ins.	20.00
Norway Spruce, 2-yr., 2 to 5 ins.	15.00
Colorado Blue Spruce, 2-yr., 2 to 4 ins.	20.00
Colorado Blue Spruce, 3-yr., 5 to 9 ins.	40.00

CHAPMAN'S NURSERY
 553 Church St. Indiana, Pa.

CANADA HEMLOCK

	Per 100	Per 1000
Collected seedlings		
6 to 9-in. seedlings	\$.4.00	\$ 20.00
9 to 12-in. seedlings	6.00	45.00
12 to 18-in. seedlings	8.00	65.00

These are first-quality, bushy Hemlocks, carefully dug and packed in sphagnum moss in ventilated boxes.

Send for complete list of lining-out stock.
ISAAC LANGLEY WILLIAMS
 Box AN Exeter, N. H.

TAXUS, 2-YEAR-OLD LINERS

	Per 100	Per 1000
Hicksii	\$.35.00	\$350.00
Moonii	35.00	350.00
Hatfieldii	35.00	350.00
Densiformis	35.00	350.00
Cuspidata	35.00	350.00
Cuspidata capitata, from leaders	35.00	350.00

These cuttings are extra heavy.
LARRY'S NURSERIES, INC.
 Cranston 10, R. I.

EUONYMUS PATENS

	Each	Each
Full plants, field-grown under irrigation		
12 to 15 ins.	\$.5.50	\$ 50.00
15 to 18 ins.	7.00	65.00
18 to 24 ins.	8.50	80.00
2 to 2½ ft.	11.00	100.00
2½ to 3 ft.	13.50	125.00

Cash with order, no packing charge.
HAGGERTY'S LANDSCAPE NURSERY
 Lincoln 6, Neb.

PIERIS JAPONICA

	Per 100	Per 1000
(Andromeda)		
Order now for spring, 1956, delivery		
3-yr. plants, 1-yr. open field rows		
bushy, 10 to 12 ins., TTT.	\$.75.00	....
2-yr. field bed, TT	30.00	....
1-yr. flats, T	10.00	\$90.00
1-yr. seedlings	5.00	75.00

ECKHART NURSERIES
 16 Toppa Blvd. Newport, R. I.

BIOTA AUREA NANA

WELL ROOTED CUTTINGS
 3 to 4 ins., \$80.00 per 1000.

JOHNSON'S NURSERY
 Baxter, Tenn.

EVERGREENS

Austrian Pine, 5 to 16 ft.
 Blue Spruce, 3 to 5 ft., seed collected from Koster trees.
 Serbian Spruce, 6 to 12 ft.
 This stock must be dug by customer.

GIBALTAR (LEWIS) NURSERIES
 R. D. 1 Birdsboro, Pa.

B&B EVERGREENS

	Per 100	Per 1000
150 Pfitzer Juniper, 24 to 30 ins.	\$.43.25	....
150 Pfitzer Juniper, 30 to 36 ins.	4.00	....
150 American Arborvitae, 3 to 4 ft.	2.50	....
50 Andorra Juniper, 30 to 36 ins.	3.75	....

Priced F.O.B. Onarga, Ill.
LEONARD'S NURSERY
 406 N. Locust St. Onarga, Ill.

TAXUS CAPITATA

2-yr. seedling from Japanese seed, packed to reach you in perfect condition.
 2 to 4 ins., \$6.00 per 100, \$50.00 per 1000.
 4 to 7 ins., \$12.00 per 100, \$100.00 per 1000.
 Sample sent on request.

NORTHUPS' NURSERY
 R. D. 1 Conneaut, O.

JAPANESE BLACK PINE

	Per 100	Per 1000
1-yr. seedlings	\$.30.00	\$ 30.00
2-yr. seedlings	50.00	500.00
3-yr. seedlings, heavy	100.00	1000.00

Sold out on all heavy and older stock.
BAIER LUSTGARTEN NURSERIES
 Jericho Turnpike, Middle Island, L. I., N. Y.

SPRUCE

500 Colorado Spruce, 4 to 15 ft.
 Koster Blue Spruce, 12 to 18 ft.

BURMAK NURSERY

95 Hillside Ave.
 Van Cortlandtville, Peekskill, N. Y.
 Phone Peek 7-4060

PIERIS JAPONICA

Out of 2-in. pots, \$17.50 per 100, \$150.00 per 1000.
F.O.B. Elizabeth, N. J.
DELAWARE VALLEY NURSERY
 948 N. Broad St. Elizabeth, N. J.

EVERGREENS—Continued

PITZER'S JUNIPER
Rooted cuttings, ready now.
\$6.00 per 100, \$55.00 per 1000.
Shipped day order received.
W. G. ESCOTT, FORT SMITH, ARK.

EVERGREENS
See our Classified ad in this issue under
LINING-OUT STOCK
T. G. OWEN & SONS, INC.
Columbus, Miss.

NANDINA PLANTS
3 to 4 ins. high, bed-grown, \$30.00 per 1000.
500 at 1000 rate, Cash.
KRONE'S FLOWER SHOP & NURSERY
4221 Grand Ave. Fort Smith, Ark.

FRUIT AND NUT TREES**HEAVY NORTHERN-GROWN**

2-YR. FRUIT TREES
APPLE: Cortland, Red Delicious, Red Jonathan, Red Northern Spy, Red Rome (Galla) Beauty, Turley Winesap, Dolgo Crab.
Each Each
Per 10 Per 100
11/16-in. and up\$0.80 \$0.70
9/16 to 11/16-in.75 .65
7/16 to 9/16-in.65 .55
5/16 to 7/16-in.45 .40
COPESEEDLESS PEAR, 2-yr. branched.
Each Each
Per 10 Per 100
11/16-in. and up\$0.85 \$0.80
9/16 to 11/16-in.80 .75
7/16 to 9/16-in.65 .55
Free packing if cash with order, or one fourth with order, balance c.o.d.
EMLONG NURSERY, INC.
Stevensville, Mich.

CRAB AND APPLE BENCH GRAFTS ARE SCARCE ITEMS.

For delivery March 1, tied 100 per bundle.
Flowering Crab: Eleyi, floribunda, Hopa, Red Silver, \$10.00 per 100, \$45.00 per 500, \$50.00 per 1000.
Apple grafts: Jonathan, Red and Yellow Delicious, Winesap, Rome Beauty, Stayman and Transparent, \$8.00 per 100, \$37.50 per 500, \$65.00 per 1000.
EGYPTIAN NURSERY & LANDSCAPE CO.
Farina, Ill.

Write for price list on Peach, Plum, Apricot, Pecans, Figs and all kinds of ornamentals. Fitzgerald's Nursery, Stephenville, Tex.

GARDENIAS**GARDENIA MYSTERY**

Well-rooted, sturdy plants. Bench-grown in sterilized soil and pots. Out of 2½-in. pots, \$17.50 per 100, \$150.00 per 1000, F.O.B. Chino, Calif. Packed 65 to a carton. No packing charge for cash with order.
DESCANSO DISTRIBUTORS, INC.
12492 Pipeline Ave. Chino, Calif.

GARDEN ROOTS**RHUBARB**

Roudebush's Improved MacDonald. We are booking orders for fall and spring digging. Grown one year from divisions. No seed stalks; good color, 2-in. plants and larger, good for forcing, \$10.00 per 100, \$90.00 per 1000.

ASPARAGUS

Washington or Paradise, 500 2-yr., heavy plants, well-graded. For fall or spring digging, \$3.00 per 100, \$16.00 per 1000. In bunches of 25, \$2.00 per 1000 extra.
ROUDEBUSH GARDENS
R. 3, Box 357 Dayton 4, O.

GRAPEVINES**GRAPE CUTTINGS**

Concord, 3 or more nodes cut by hand and wired tied.
\$5.00 per 1000.
5000 or more, \$4.50 per 1000.

CLINGER NURSERY

Highway 71 West Rogers, Ark.

GRAPE CUTTINGS

Concord and Fredonia, cut from clean, healthy vineyard, largest in Oklahoma, by experienced workmen. Tied with wire, 100 to a bunch, \$5.00 per 1000, F.O.B. here.
IDEAL FRUIT FARM, STILWELL, OKLA.

CONCORD GRAPEVINES

1-yr. No. 1, \$65.00 per 1000; 300 at 1000 rate. Fast service, quality plants.
CLINGER NURSERY
Highway 71 West Rogers, Ark.

GROUND COVERS**THORNDAL SUB-ZERO EVERGREEN IVIES**

Special strain, stands 20 degrees below zero. This English Ivy stays green all year round. Strong plants from 2½-in. rose pots or 2-in. plant bands, \$25.00 per 100, lots of 250 or more; \$30.00 per 100, in lots of 50 or less than 250. F.O.B. Woodstock.
THORNDAL NURSERY
Dean St. at 176 Woodstock, Ill.

GROUND COVERS

Ajuga genevensis, \$5.00 per 100.
Ajuga, red-leaved, \$10.00 per 100.
Ajuga, variegated, \$20.00 per 100.
Hardy Baltic Ivy, \$10.00 per 100.
Euonymus f. coloratus, 1-yr., \$10.00 per 100.
Euonymus f. coloratus, 2-yr., \$22.00 per 100.
Euonymus f. coloratus erectus, 1-yr., \$15.00 per 100.
Euonymus f. coloratus erectus, 2-yr., \$25.00 per 100.
Euonymus f. vegetus, 1-yr., \$10.00; 2-yr., \$22.00 per 100.
Blue Plantain Lily, 4-yr., field-grown, \$10.00 per 100.
Euonymus alatus, 18 to 24 ins., heavy, field-grown, \$35.00 and \$50.00 per 100.
Also Sedums in variety.
HOLBERTON NURSERY
22 N. West St. Aurora, Ill.

VINCA MINOR

(Periwinkle, Hardy Myrtle.)
Finest ground cover; fresh dug, individually clumped, \$5.00 per 1000.
Hall's Honeysuckle (Japonica halliana), \$45.00 per 1000; 2000 or more, \$40.00 per 1000.
Pachysandra terminalis, 1-year, \$55.00 per 1000; 2000 or more, \$50.00 per 1000.
Ivy prices on request.

H. C. WAUGH

PACHYSANDRA TERMINALIS
Strong rooted cuttings, \$4.00 per 100, \$37.50 per 1000; \$35.00 per 1000 for any order of 5000 or more. Prompt shipment March through November.
DUNWOODIE NURSERIES
6 Smart Ave. Yonkers, N. Y.

PACHYSANDRA TERMINALIS

Strong 1-yr., field-grown, \$65.00 per 1000.
HILLCREST GREENHOUSES, Franklin, Pa.

HARDWOOD CUTTINGS**HARDWOOD CUTTINGS**

7 ins. long, tied in 100. Packed free when cash accompanies order. Guarantee delivery in good condition.

	Per 1000
Aronia melanocarpa	\$ 5.00
Cornus paniculata	5.00
amomum	5.00
Foraythia intermedia	4.00
spectabilis	4.00
primulina	4.00
ovata	4.00
Hydrangea P.G.	5.00
Hydrangea A.G.	5.00
Pretet, Amur (North)	5.00
Regels (true)	8.00
Honeysuckle, morrowi	4.00
bella rosea	4.00
tatarica rosea	5.00
korolkowi	5.00
zabell	5.00
Philadelphus grandiflorus	4.00
Bouquet Blanc	4.00
lemoncel	5.00
Amalthee	5.00
coronarius	4.00
Physocarpus opulifolius aureus	4.00
opulifolius nanus	5.00
Sorbaria sorbifolia	4.00
Spiraea billardi rosea	4.00
freibell	4.00
thunbergi	4.00
vanhouttei	4.00
trichocarpa	4.00
Snowberry, white	4.00
Poplar, Lombardy	4.00
Willow, niobe (weeping)	4.00
Pussy	4.00
Arborvitae, pyramidalis	15.00
Globe	15.00
Rethinospor	15.00
Juniper, Pfitzer	15.00
Juniper, Von Ehron	15.00
Taxus cuspidata	15.00

SCOTCH GROVE NURSERY

Scotch Grove, Ia.

HARDY PLANTS**PERENNIALS**

Strong field-grown, transplanted stock.

	Per 100
AQUILEGIAS, Mrs. Scott Elliot's	\$ 8.00
or Crimson Star	7.00
SHASTA DAISY Alaska	10.00
SHASTA DAISY Giant Double	10.00
LYRITHRUM James Kolbey	10.00
SCABIOSA (perennial), blue	10.00
CARNATION Grenadin, in Black King	7.00
Golden Sun, Cardinal Red or mixed colors	7.00
GAILLARDIAS, Burgundy or Dazzler	7.00
CUSHION MUMS, large field-grown divisions in bronze, red, pink, white and lavender	10.00

NORTH POLE NURSERY

Cornucopia, Wis.

Hardy perennials, choice seedlings, \$3.00 per 100, \$25.00 per 1000; Delphiniums, Giant Hybrids, mixed; Painted Daisies, Long-spurred Columbine, mixed; Lychnis Chalcedonica, Sweet William, mixed; Dianthus Plumarius and Violas, Horseradish Giant Bohemian, liberal root cuttings, \$3.00 per 100, \$25.00 per 1000. Order now. Plants dug fresh, packed right and guaranteed to please.
Cash, Rathbun Nursery, R. 5, Coldwater, Mich.

HEAVY FIELD-GROWN PLANTS

	Per 100
Ajuga genevensis	\$12.00
Ajuga reptans rubra	15.00
Alyssum saxatile citrinum	15.00
Alyssum saxatile compactum	15.00
Aquilegia Mrs. Scott Elliot's Hybrids	15.00
Aster Harrington's Pink	18.00
Carnations, King of Blacks, scarlet and red, white, yellow shades	15.00
Chrysanthemum maximum Majestic	30.00
Coreopsis Sunburst	12.00
Delphiniums, Belladonna, Bellanousum	15.00
Delphinium English Hybrids, mixed	15.00
Dianthus June Carmine	18.00
Gaillardia Portola Hybrids	12.00
Lythrum Robert	18.00
Lythrum, Dropmore Purple	15.00
Morden's Pink	15.00
Penstemon barbatus Pink Beauty	15.00
Polemonium Blue Pearl	18.00
Pyrethrum, English, mixed	18.00
Stokesia Blue Moon	18.00
Tritoma, Glow, Primrose Beauty, Royal Standard and White Giant	15.00
Veronica incana	18.00
Viola odorata Royal Robe	15.00

Write for complete wholesale price list.

KINGWOOD NURSERIES

Mentor, O.

HARDY FIELD-GROWN PERENNIALS

Astilbes, 4 good varieties; Aquilegas, 7 separate colors; Arabis, Artemisis, Aubrietas, Campanulas, Carnations, Chives, Delphinium Pacific Hybrids, 10 separate colors; Dianthus, Dicentras, Digitalis, Doronicums, Gaillardias, Geums, Liatris, Russell Lupines, Lythrum, Myosotis, Phlox subulata, 10 varieties; Primroses, Pyrethrum Daisies, Shasta Daisy, Esther Read, Sedums, 10 varieties; Sweet Williams, Thymes, Tritomas, Trollius, Violas and Violets.

If you haven't received our list, send for it now. 100 or more good varieties.

All plants freshly dug for each order.

Orders taken now for spring delivery.

Shipping date, after March 15.

GEORGE FRANK & SON

Penfield, N. Y.

HEMEROCALLIS

We are among the largest growers of Hemerocallis, 150 dependable varieties; 14 varieties Liriope, the great border and ground cover plant; hardy Giant Hibiscus, also other items. High-quality stock at reasonable prices. Send for our wholesale list.

RIEGLER PLANT CO., EXPERIMENT, GA.

HELLEBORUS NIGER

(Christmas Rose)

Our own grown.

3-yr. transplants

\$50.00 per 100.

\$450.00 per 1000.

C. HOOGENDOORN

Turner Rd. Newport, R. I.

HARDY PERENNIALS**OF SUPERIOR QUALITY**

We specialize in new and rare varieties.

Send for our new wholesale list.

RIDENOUR'S FLOWER GARDEN

1024 W. Chicago Rd. Allen, Mich.

HARDY PLANTS

We still have a good selection of healthy, field-grown perennials, plants for spring shipment. If you are willing to pay \$10.00 per 100 for nice plants, then write for our new list.

WALTERS GARDENS

Route 2 Zeeland, Mich.

BLEEDING HEART ROOTS

Dicentra spectabilis, 4 to 6-eye, \$250.00 per 1000 (250 roots at the 1000 price); 100, \$30.00; 50, \$16.00; 25, \$8.50; 12, \$4.75.

NEW ENGLAND BULB CO.

Box 743 New London, Conn.

HARDY FERNS, DORMANT ROOTS

Ostrich, Lady, Clayton, Sensitive and Maidenhair, \$10.00 per 100, \$75.00 per 1000.

STRAND NURSERY CO.

Taylor's Falls, Minn.

America's Best Source**for Hardy Plants in****THE WAYSIDE GARDENS**

Mentor, Ohio

Write for Trade List.

Panicles, perennials and rock plants in wide variety. Send for catalog.

PITZONKA'S PANSY FARM & NURSERY

Bristol, Pa.

WELLER'S BETTER PERENNIALS

WELLER NURSERIES CO., Holland, Mich.

Write for trade list.

HOLLY**ILEX OPACA FEMINA**

Heavy 1-yr. liners, potted spring 1955, from selected, heavy berried specimens.

4 to 8-in. plants, from 2½-in. pots or 2-in. whip soil cans.

\$30.00 per 100.

A few male plants at the same price.

WARREN & SON NURSERY

Rt. 11, Box 512 Oklahoma City, Okla.

HOLLY		Each	100	1000
Ilex opaca (American Holly),				
4-yr., XX, 8 to 15 ins., 5-in. pots.	\$0.50	\$0.45		
Ilex crenata (Japanese Holly),				
4-yr., XX, field heavy,				
10 to 15 ins.,	.50	.45		
8 to 12 ins.,	.40	.35		
3-yr., X, beds, 6 to 8 ins.,	.12	.09		
Ilex crenata microphylla,				
3-yr., X, beds, 4 to 8 ins.,	.12	.09		
Ilex crenata convexa (bullata),				
4 to 6 ins., X, beds,	.15	.12		
8 to 10 ins., X, beds,	.25	.20		
8 to 10 ins., X, beds,	.30	.25		
Ilex crenata rotundifolia,				
6 to 8 ins., XX, beds,	.25	.22		

NOTE: Ilex opaca, crenata and microphylla were produced from seeds. Ilex convexa and rotundifolia from cuttings.
BROOKFIELD GARDENS, Delaware, N. J.

HOLLY	
Well-rooted, cutting-grown liners out of	
3-in. pots.	
Ilex cornuta rotunda	\$.035
Ilex crenata convexa bullata	.17 1/2
Ilex crenata helleri	.30
Ilex cornuta burfordi	.15
Ilex opaca East Palatka	.30
Ilex aquifolium, green	.35
Ilex aquifolium, silver variegated	.45
Packed 35 to a box, Minimum order 3 boxes.	
Cash with order, please. F.O.B. Chino, Calif.	
DESCANSO DISTRIBUTORS, INC.	
Wholesale Growers	Chino, Calif.

MUST SELL IMMEDIATELY
5000 ILEX CRENATA CONVEXA, rooted cuttings, 6 to 8 ins., heavy roots. These have been in the rooting bed for 2 summers. Will sacrifice for \$40.00 per 1000 (minimum order).
Cash with order, please.
Shipped by express unless postage enclosed.

BUCHANAN'S NURSERY
5108 Western Blvd. Raleigh, N. C.

HONEYSUCKLES

HONEYSUCKLES
Lonicera japonica halliana, extra-heavy No. 1, 3 and 4-year, 18 to 24-in. field plants, 4 to 6 leads, \$40.00 per 1000; lighter grade, \$30.00 per 1000; sample 100, \$4.00. Experienced labor for grading and packing quantity orders. Immediate shipment. No order too large. Phone: 500W5.
ROBINSON NURSERY CO., Greenville, Ga.

IVIES

THORNDALE SUB-ZERO EVERGREEN IVIES
Special strain, stands 20 degrees below zero. This English Ivy stays green all year round. Strong plants from 2 1/2-in. rose pots or 2-in. plant bands, \$25.00 per 100, lots of 250 or more; \$30.00 per 100, on lots of 50 or less than 250. F.O.B. Woodstock.
THORNDALE NURSERY
Highway 176 Woodstock, Ill.

ENGLISH IVY (HEDERA HELIX)
Our super quality, large-leaved strain. Approved landscape architects' standards. Grown in the sub-zero snow belt.
Per 100 Per 1000
1-yr., rooted cuttings \$ 5.00 \$ 45.00
2 1/2-in. pots (2 per pot) 12.50 110.00
Free packing, cash with orders.

HABCOCK GARDENS
R. 3 Jamestown, N. Y.

BALTIC IVY
Hardest Ivy. Fine for wall or ground cover. True stock. Well-rooted plants. Delivery now or later, 25 per cent down to reserve. Rooted cuttings 100, \$60.00 per 1000. 2-in. pots, \$12.00 per 100, \$110.00 per 1000.
STRATFORD GARDENS
Russell Breece, R. 3 Delaware, O.

BOSTON IVY
2-yr., field-grown, with nice tops and roots.
No. 1, 22c each.
Medium, 16c each.
CONGDON'S WHOLESALE NURSERY
North Collins, N. Y.

ENGLISH IVY (HEDERA HELIX)
From carefully selected, hardy stock; sturdy, extra heavy rooted cuttings with new growth developed, \$35.00 per 1000; 5000 or over, \$30.00. Cash, please.
BONGARZONE NUR., Box 66, Eatontown, N.J.

LINING-OUT STOCK

LINING-OUT STOCK		100
Mahonia aquifolia, 1-yr., 8-in., bedded,		\$5.00
Ilex rotundifolia		20.00
Juniperus hetzi		20.00
Azalea ponticum, mixed		20.00
Azalea mollis, mixed		20.00
Leucothoe catesbaei		20.00
Viburnum lantana, tr.		8.00
3 years, bedded,		
Juniperus hetzi		25.00
Leucothoe catesbaei		30.00
Azalea ponticum, yellow		30.00
Azalea mollis, mixed		30.00
MAHLSTEDE BROS.		
5323-5351 Wilson Mills Rd.		
Cleveland 24, O.		

LINING-OUT LIST PRICES SUBJECT TO CHANGE WITHOUT NOTICE

ALL POTTED LINERS ON THIS LIST ARE PRICED FOR SHIPMENT IN PAPER POTS OR CUPS. THOSE WHO PREFER THE ORDINARY METHOD OF PACKING OMITTING THIS ADDED PROTECTION MAY REDUCE 1c PER PLANT. THE 1000 RATE APPLIES ON ALL ORDERS; THEREFORE, PLEASE ORDER IN MULTIPLES OF 25 OR MORE.

		EACH	PER 1000
BIOTA AUREA NANA, Berckmans'			\$0.18
2 1/2-in. pots			
BIOTA BAKERI			
2 1/2-in. pots	.16		
2 1/2-in. pots	.17		
BIOTA SIBTHI			
2 1/2-in. pots	.20		
CHAMAECYPARIS LAWSONIANA			
ALLUMI, Blue Lawson Cypress			
2 1/2-in. pots	.18		
2 1/2-in. pots	.20		
JUNIPERUS CHINENSIS			
PITZERIANA			
Rooted cuttings	.10		
2 1/2-in. pots	.17		
2 1/2-in. pots	.18		
JUNIPERUS CHINENSIS			
PITZERIANA COMPACTA			
Rooted cuttings	.10		
2 1/2-in. pots	.17		
JUNIPERUS FORTUNEI			
Rooted cuttings	.08		
2 1/2-in. pots	.12		
JUNIPERUS CHINENSIS VIRIDIFOLIA			
2 1/2-in. pots	.25		
2 1/2-in. pots	.26		
JUNIPERUS COM. CRACOVIA,			
Polish Juniper			
2 1/2-in. pots	.15		
JUNIPERUS HORIZONTALIS			
PLUMOSA, Andorra Juniper			
2 1/2-in. pots	.16		
2 1/2-in. pots	.17		
JUNIPERUS EXCELSA STRICTA			
2 1/2-in. pots	.17		
2 1/2-in. pots	.18		
JUNIPERUS LAUCA HETZI			
Rooted cuttings	.10		
2 1/2-in. pots	.16		
JUNIPERUS HIBERNICA			
FASTIGIATA			
3 1/2-in. pots	.14		
2 1/2-in. pots	.15		
JUNIPERUS JAPONICA PROCUMBENS			
2 1/2-in. pots	.18		
JUNIPERUS JAPONICA VIRGINALIS			
2 1/2-in. pots	.20		
JUNIPERUS SABINA			
TAMARISCIFOLIA			
2 1/2-in. pots	.18		
2 1/2-in. pots	.20		
JUNIPERUS VIRGINIANA			
KETELEERI			
2 1/2-in. pots	.25		
2 1/2-in. pots	.27 1/2		
TAXUS CUSPIDATA			
2 1/2-in. pots	.17		
TAXUS CUSPIDATA CAPITATA			
Rooted cuttings	.10		
2 1/2-in. pots	.17		
TAXUS CUSPIDATA BREVIFOLIA			
2 1/2-in. pots	.17		
2 1/2-in. pots	.18		
TAXUS CUSPIDATA WYMANI			
2 1/2-in. pots	.17		
TAXUS MEDIA ANDERSONI			
2 1/2-in. pots	.17		
TAXUS MEDIA PYRAMIDALIS			
2 1/2-in. pots	.17		
ABELIA GRANDIFLORA			
2 1/2-in. pots	.12		
2 1/2-in. pots	.14		
BERBERIS JULIANAE			
2 1/2-in. pots	.25		
BUXUS SEMPERVIRENS CRONI			
2 1/2-in. pots	.22 1/2		
ELAEAGNUS FRUITLANDI			
2 1/2-in. pots	.16		
2 1/2-in. pots	.18		
EUONYMUS PATENS, large leaf			
2 1/2-in. pots	.13		
EUONYMUS PATENS, small leaf			
2 1/2-in. pots	.15		
EUONYMUS ALATIFOLIUS			
PULCHELLUS			
2 1/2-in. pots	.15		
ILEX CRENATA HETZI			
2 1/2-in. pots	.18		
ILEX CRENATA ROTUNDIFOLIA			
2 1/2-in. pots	.15		
2 1/2-in. pots	.17		
ILEX CORNUTA BURFORDI			
6x8-in. TT, br.	.12		
2 1/2-in. pots, 2-yr., heavy	.15		
2 1/2-in. pots, 2-yr., heavy	.18		
3-in. pots	.25		
ILEX CORNUTA FEMINA			
2 1/2-in. pots	.18		
2 1/2-in. pots	.20		
ILEX CORNUTA, male			
2 1/2-in. pots	.20		
3-in. pots, 2-yr., heavy	.25		
ILEX CORNUTA, seedlings			
2 1/2-in. pots	.12		
ILEX GLABRA, INKBERRY			
2 1/2-in. pots	.18		
2 1/2-in. pots	.20		
ILEX OPACA FEMINA, true fruiting variety. (Propagated from cuttings,			

(Continued in next column.)

(Continued from previous column.)

		taken from trees of hardy berry-bearing Ilex opaca.)		
2 1/2-in. pots				.30
ILEX OPACA HOWARDI				
2 1/2-in. pots				.18
2 1/2-in. pots				.20
ILLICIUM ANISATUM				
2 1/2-in. pots				.18
LAUROCERASUS CAROLINIANA,				
Cherry-Laurel				
6x8-in. seedlings				.08
8x12-in. seedlings				.10
2 1/2-in. pots				.12
2 1/2-in. pots				.15
LIGUSTRUM JAPONICUM				
2 1/2-in. pots, 2-yr.				.15
LIGUSTRUM LUCIDUM COMPACTUM				
2 1/2-in. pots				.15
MAGNOLIA GRANDIFLORA				
2 1/2-in. pots				.13
MAHONIA BEALEI				
2 1/2-in. pots				.18
2 1/2-in. pots				.20
3-in. pots				.30
NANDINA DOMESTICA				
3x4-in. seedlings				.04
2 1/2-in. pots				.10
2 1/2-in. pots				.12
3-in. pots				.25
PHOTINIA SERRULATA				
2 1/2-in. pots				.18
2 1/2-in. pots				.20
PODOCARPUS MACROPHYLLUS				
2 1/2-in. pots				.12
2 1/2-in. pots				.15
PYRACANTHA BELLI (red fruit)				
2 1/2-in. pots				.18
2 1/2-in. pots				.20
PYRACANTHA COCCINEA LALANDI (yellow fruit)				
2 1/2-in. pots				.15
2 1/2-in. pots				.17
PYRACANTHA YUNNANENSIS (red fruit)				
2 1/2-in. pots				.15
2 1/2-in. pots				.17
TEUCRIUM CHAMAEDRYIS (dwarf perennial for borders, edging, etc.)				
2 1/2-in. pots				.15
8x10-in. TT, field-grown				.18
VIBURNUM TINUS				
2 1/2-in. pots				.18
ACER PALMATUM ATROPURPUREUM				
2 1/2-in. pots				.20
BERBERIS THUNBERGI				
ATROPURPUREUM				
2 1/2-in. pots				.15
CORNUS FLORIDA FLORA-PLENA (double flowering white Dogwood)				
3 1/2-in. pots, grafts				.50
CORNUS FLORIDA RUBRA (pink flowering Dogwood)				
2 1/2-in. pots, grafts				.40
2 1/2-in. pots, grafts				.50
LAGERSTROEMIA INDICA				
WM. TOOVEY				
2 1/2-in. pots				.16
2 1/2-in. pots				.18
MAGNOLIA SOULANGIANA				
2 1/2-in. pots				.30
SPIRAEA ANTHONY WATERER				
2 1/2-in. pots				.10
6x8-in. TT, field-grown				.15
8x12-in. TT, field-grown				.17

SPECIAL NOTICE: ITEMS MARKED BY ASTERISK (*) DELIVERED LATE SPRING. ALL OTHERS NOT SO MARKED READY FOR IMMEDIATE SHIPMENT OR LATER TO SUIT CUSTOMERS' REQUIREMENTS.
T. G. OWEN & SON, INC.
Columbus, Miss.

LINING-OUT STOCK

		Per 100	4-EX	6-8X	8-10X
Abelia grandiflora, 1-yr.,					
T.		\$16.50			
Arborvitae, boothi		18.50	\$23.50	\$28.50	
Arborvitae, compacta,					
Parson's		18.50	23.50	28.50	
Arborvitae, elegantissima		18.50	23.50		
Arborvitae, Geo. Peabody		18.50			
Arborvitae, nigra		18.50	23.50	28.50	
Arborvitae, pyramidalis		18.50	23.50	28.50	
Berberis julianae		20.00	24.00	32.50	
Ilex convexa bullata		14.00	17.50	22.50	
Ilex crenata		17.50	22.50	27.50	
Ilex rotundifolia		17.50	22.50	27.50	
Juniperus hetzi glauca		18.50	23.50	28.50	
Kalmia latifolia,					
2-yr., trays			23.50		
Ligustrum lucidum				25.00	
Osmanthus aquifolium		18.50	23.50		
Pyracantha c. lalandi,					
2 1/2-in. pots				30.00	
Retinospora filifera		17.50	22.50	28.50	
Retinospora Gold Dust				28.50	
Retinospora obtusa					
crispata		18.50			
Retinospora obtusa nana					
comp.		18.50	23.50		
Taxus cuspidata		18.50	23.50		
Taxus cuspidata nana		20.00			
Taxus E No. 1					
(very good)		21.00	26.00		
Taxus hatfieldi		18.50	23.50		
Taxus hickii		18.50	23.50		
Taxus, Jeffreys'		18.50	23.50		
Azaleas, rooted cuttings: Eliz. Gable, Fashion, hindogiri, maxwelli, Paestrina V., etc each, per 100; 5c each, per 1000.					
No packing charges. Write for complete list.					
ESHAM'S NURSERIES					
Millsboro, Del.					

LINING-OUT STOCK—Continued

BEDDED STOCK 1 year in the open.		
	Per 100	Per 1000
<i>Ilex convexa</i>	\$20.00	\$180.00
<i>Ilex rotundifolia</i>	20.00	180.00
<i>Sarcococca hookeriana</i>	25.00	
<i>Taxus brownii</i>	17.50	150.00
<i>Taxus hicksii</i>	17.50	150.00
<i>Taxus hatfieldii</i>	17.50	150.00
<i>Taxus cuspidata</i>	17.50	150.00
<i>Taxus capitata</i> , cutting-grown.....	25.00	225.00
SEEDLINGS AND TRANSPLANTS		
<i>Abies douglasii</i> , 2-yr., S.....	4.00	35.00
<i>Acer palmatum</i> , 2-yr., S.....	7.50	65.00
<i>Acer palmatum atropurpureum</i> , 2-yr., S.....	22.50	200.00
<i>Cornus florida</i> , 1-yr., S.....	6.00	50.00
<i>Cornus florida</i> , 2-yr., S.....	9.00	80.00
<i>Euonymus alatus</i> , 1-yr., S.....	3.50	30.00
<i>Euonymus alatus</i> , 2-yr., S.....	6.00	50.00
<i>Euonymus alatus comp.</i> 1-yr., S.....	5.00	40.00
<i>Euonymus alatus comp.</i> 2-yr., S.....	6.00	50.00
<i>Ilex crenata</i> , 2-yr., S.....	7.00	60.00
<i>Picea engelmannii</i> , 3-yr., S.....	5.00	40.00
<i>Picea excelsa</i> , 2-yr., S.....	2.50	20.00
<i>Picea excelsa</i> , 3-yr., S.....	3.50	30.00
<i>Picea pungens</i> , 2-yr., S.....	3.50	30.00
<i>Picea pungens</i> , 3-yr., S.....	4.50	40.00
<i>Pinus austriaca</i> , 2-yr., S.....	7.00	60.00
<i>Pinus densiflora</i> , 2-yr., S.....	6.00	50.00
<i>Pinus mughus</i> , 2-yr., S.....	5.50	50.00
<i>Pinus resinosa</i> , 2-yr., S.....	6.00	50.00
<i>Pinus thunbergii</i> , 2-yr., S.....	5.50	50.00
<i>Pinus strobus</i> , 2-yr., S.....	4.50	40.00
<i>Pinus sylvestris</i> , 2-yr., S.....	3.00	25.00
<i>Syringa vulgaris</i> , 2-yr., S.....	4.00	30.00
<i>Taxus capitata</i> , 1-yr., S.....	5.00	40.00
<i>Taxus capitata</i> , 1-yr., S.....	6.00	50.00
2-yr., S.....	10.00	90.00
<i>Tsuga canadensis</i> , 2-yr., transplants, 4 to 6 ins.....	9.00	80.00
3-yr., transplants, 6 to 9 ins.....	16.00	150.00
4-yr., transpl., 9 to 12 ins.....	26.00	250.00
5-yr., transpl., 12 to 15 ins.....	36.00	350.00
Heavy liners, field-grown in nursery rows, bare-roots.....	Per 100	
<i>Cornus florida rubra</i> , 1-yr. buds.....	\$150.00	
<i>Cornus florida rubra</i> Prosser, 1-yr. buds, 15 to 24 ins.....	200.00	
<i>Ilex convexa</i> , 9 to 12 ins.....	50.00	
<i>Ilex rotundifolia</i> , 8 to 12 ins.....	50.00	
<i>Buxus sempervirens</i> , 6 to 9 ins.....	35.00	
<i>Pinus thunbergii</i> , 6 to 8 ins.....	30.00	
<i>Pinus thunbergii</i> , 8 to 10 ins.....	50.00	
<i>Pinus austriaca</i> , 6 to 8 ins.....	20.00	
<i>Pinus austriaca</i> , 10 to 15 ins.....	40.00	

Above stock has been transplanted several times, ready to pot in Cloversets for call trade. Special price on large amounts.

Pot-grown grafts, May shipment.		
	Per 100	
<i>Acer polymorphum atropurpureum</i>	\$75.00	
<i>Acer dissectum</i>	75.00	
<i>Betula lacinata</i> (Cutleaf Birch).....	60.00	
<i>Carpinus betulus fastigiata</i>	60.00	
<i>Cornus florida rubra</i>	50.00	
<i>Cornus florida rubra</i> Prosser.....	65.00	
<i>Cornus florida pendula</i>	60.00	
<i>Cornus florida weichi</i> var.....	60.00	
<i>Cornus florida flore-plena</i>	60.00	
<i>Cornus florida rubra</i> (root graft).....	25.00	
<i>Cornus kousa chinensis</i>	60.00	
<i>Cornus kousa speciosa</i>	60.00	
<i>Hamamelis mollis</i>	50.00	
<i>Fagus sylvatica riversi</i>	60.00	
<i>Fagus sylvatica pendula</i>	60.00	
<i>Fagus sylvatica heterophylla</i>	60.00	
<i>Fagus sylvatica fastigiata</i>	60.00	
<i>Fagus sylvatica tricolor</i>	75.00	
<i>Picea Moerheimii</i>	100.00	
<i>Pinus strobus pendula</i>	60.00	
<i>Pinus strobus nana</i>	60.00	
<i>Pinus strobus fastigiata</i>	60.00	
<i>Pinus parviflora glauca</i>	60.00	
<i>Pinus cembroides</i>	60.00	
<i>Pinus wateriana glauca</i>	60.00	
<i>Pine</i> , Tanyosho.....	60.00	
<i>Retinospora obtusa gracilis</i>	50.00	
<i>Retinospora obtusa gracilis nana</i>	50.00	
<i>Retinospora obtusa crispata</i>	50.00	
<i>Tsuga canadensis pendula</i>	60.00	
<i>Tsuga canadensis atrovirens</i>	60.00	
<i>Viburnum carlesii</i>	50.00	
<i>Viburnum fuddii</i>	50.00	
<i>Viburnum burkwoodii</i>	50.00	

Special prices on large quantities.

VERKADE'S NURSERIES, Wayne, N. J.

LINING-OUT STOCK		
	Each	1000
<i>Ilex convexa</i> , 6 to 8 ins.....	\$0.30	\$0.25
<i>Ilex hetsii</i> , 8 to 12 ins.....	.40	.35
<i>Ilex rotundifolia</i> , 8 to 8 ins.....	.30	.25
<i>Ilex rotundifolia</i> , 8 to 12 ins.....	.40	.35
Grown 2 years in beds, planted 8 ins. apart. The larger size makes ideal plants for gallon cans and direct sales yard sales.		
<i>Pieris japonica</i> , 6 to 8 ins.....	\$0.30	\$0.25

GERARD K. KLYN, INC., MENTOR, O.
Wholesale Rose Growers and Nurserymen

1000 ILEX CRENATA CONVEXA		
6 to 8 ins., XX, br.	\$200.00	
1000 ILEX CRENATA MICROPHYLLA		
4 to 6 ins., T, 2-in. bands.	\$90.00	

Cash, F.O.B. BROADLEAF GARDENS

Route 13 Onley, Va.

EVERGREENS		
<i>Pfitzer Juniper</i> , XX, field, branched, sheared 14 to 16-in. spread.....	\$0.50	
11 to 14-in. spread.....	.40	
9 to 11-in. spread.....	.30	
8 to 10-in. bands.....	.20	
<i>Andorra Juniper</i> , 6 to 8-in. bands, 2-yr.....	.14½	
6 to 10-in., bare-root, or.....	.06	
<i>Dwarf Pfitzer</i> (nana), bands, 5 to 6-in.....	.20	
<i>Savin Juniper</i> , 6 to 8-in. bands.....	.20	
<i>Von Ehron Juniper</i> , 10 to 12-in. bands, 2-yr.....	.14½	
<i>Spreading Jap. Yew</i> , 2-yr., 6 to 8-in. bands.....	.20	
<i>Juniperus cypripedifolia</i> (upright), 6 to 8-in. bands.....	.25	
DECIDUOUS, BARE-ROOT		
<i>Buddleia</i> , best red; 6 to 8 ins.....	.06	
<i>Buddleia Snowbank</i> , 6 to 8 ins.....	.06	
<i>Blue Spiraea</i> (Caryopteris), 8 to 12 ins.....	.03½	
<i>Chinese Beauty-Berry</i> , 6 to 12 ins.....	.03½	
<i>Chinese Privet</i> , Wayside Gardens strain; 6 to 12 ins.....	.03½	
<i>Forsythia Lynwood Gold</i> , 6 to 10 ins.....	.08	
<i>Forsythia Spring Glory</i> , 8 to 14 ins.....	.04	
<i>Forsythia nana compacta</i> , 4 to 8 ins.....	.06	
<i>Regels Privet</i> , 8 to 10 ins.....	.03½	
<i>Weigelia rosea</i> , 5 to 6 ins.....	.04	
BROADLEAFS, bare-root		
<i>Euonymus coloratus</i> , 6 to 10 ins.....	.03½	
large-leaved; 6 to 10 ins.....	.04	
<i>Euonymus radicans</i> (upright) (Sar- coxie), 8 to 8 ins.....	.07	
<i>Pyracantha lalandi</i> , 5 to 6 ins.....	.05	
<i>Pyracantha Kusan</i> , 5 to 6 ins.....	.12	
<i>Purple-leaved Honeysuckle</i> vine, 5 to 6 ins.....	.06	
<i>Variegated-leaved Honeysuckle</i> vine, 5 to 6 ins.....	.08	
PERENNIALS, bare-root		
<i>Carnation Crimson King</i>.....	.05	
<i>Phlox subulata</i> (double), 4 to 8 ins.....	.03½	
<i>Phlox subulata</i> Emerald Blue.....	.03½	
<i>Phlox subulata</i> , best pink.....	.03½	
<i>Teucrium chamaedrys</i>.....	.04	
<i>Verbenas</i> , pink.....	.06	
<i>Verbenas</i> , lavender-pink.....	.06	
All prices are 100 per plant, or more total order. Less than 300, add 20¢ per plant.		

McNINCH GREENHOUSES

St. Joseph, Mo.

LINING-OUT SHRUBS

	Per 100	Per 1000
<i>Euonymus alatus</i> , 2-yr., T, 6 to 9 ins.....	\$17.50	\$150.00
compactus, 3-yr., T, 6 to 9 ins.....	17.50	150.00
<i>yedoensis</i> , 2-yr., T, 6 to 9 ins. (Bittersweet Tree).....	15.00	125.00
<i>yedoensis</i> , 9 to 12 ins.....	20.00	175.00
<i>Forsythia Lynwood Gold</i> , 1-yr., C, 6 to 12 ins.....	20.00	165.00
<i>Hydrangea macrophylla rosea</i> (Bouquet Rose, pink French, new), 1-yr., T.....	20.00	180.00
<i>Kolkwitzia amabilis</i> , 2-yr., T.....	20.00	180.00
12 to 18 ins.....	17.50	150.00
2-yr., T, 18 to 24 ins.....	22.50	200.00
<i>Lonicera zabeli</i> , 1-yr., C, 10 to 12 ins.....	10.00	75.00
(Best red Honeysuckle), 12 to 18 ins.....	12.00	100.00
<i>Ligustrum vicari</i> , rooted cuttings, 4 to 6 ins.....	10.00	80.00
(True dwarf golden type) <i>Rhodotypos kerrioides</i> , 6 to 12 ins.....	10.00	75.00
<i>Rhus cotinus</i> (Smoke Bush), 6 to 9 ins.....	11.00	90.00
<i>Rhus cotinus</i> , 9 to 12 ins.....	13.50	115.00
<i>Viburnum burkwoodii</i> , S. T., 6 to 9 ins.....	20.00	175.00
<i>Viburnum burkwoodii</i> , S. T., 9 to 12 ins.....	25.00	200.00
<i>wrightii</i> , S, 6 to 12 ins.....	10.00	85.00

EVERGREENS

	Per 100	Per 1000
<i>Buxus koreana</i> , 2-yr., T, 4 to 6 ins.....	\$30.00	\$250.00
<i>Juniper</i> , <i>Andorra</i> , TT, 6 to 9 ins.....	20.00	180.00
<i>Andorra</i> , TT, 9 to 12 ins.....	22.50	200.00
<i>Thuja americana nigra</i> , TT, 10 to 15 ins.....	30.00	250.00
pyramidalis, TT, 10 to 15 ins.....	30.00	250.00

Send for complete trade list. Lining-out
and finished stock.

Box 5 SCARFF'S NURSERY, INC., New Carlisle, O.

PLANTS OUT OF 2½-IN. POTS

	Per 100	
<i>Juniperus chin. fortunei</i> , heavy 2-yr.....	\$18.00	
10 to 12 ins.....	17.50	
<i>Juniperus chin. sylvestris</i> , heavy 2-yr., 10 to 12 ins.....	17.50	
<i>Juniperus chin. Blue Vase</i> (a Pfitzer sport), 4 to 6 ins.....	25.00	
Very blue-gray and natural vase shape. <i>Green bonita Arborvitae</i> , 2½-in. pots.....	15.00	
<i>Golden bonita Arborvitae</i> , 2½-in. pots.....	15.00	
<i>Blue Spire Arborvitae</i> , 2½-in. pots.....	15.00	
<i>Yew</i> , small-leaved, 2½-in. pots.....	15.00	
<i>Cherry Laurel</i> , 2½-in. pots.....	12.00	
<i>Yaupon Holly</i> , 2½-in. pots.....	12.00	
<i>Barbados Cherry</i> , 2½-in. pots.....	12.00	
<i>Yeddo Hawthorne</i> , 2½-in. pots.....	12.00	
<i>Green Pittosporum</i> , 2½-in. pots, cutting-grown.....	15.00	
<i>Burford Holly</i> , 2½-in. pots, cutting- grown.....	15.00	

BRADSHAW'S NURSERY

League City, Tex.

Phone 8-4811

LINING-OUT STOCK

	Per 100	Per 1000
<i>ILEX C. BURFORDI</i>	\$17.50	\$150.00
2½-in. pots.....	15.00	135.00
8 to 12-in. cuttings.....	15.00	135.00
12 to 18-in. cuttings.....	17.50	150.00
<i>ILEX CORNUTA FEMINA</i> 2½-in. pots.....	17.50	150.00
8 to 12-in. cuttings.....	15.00	135.00
<i>ILEX CRENATA BULLATA</i> 6 to 8-in. cuttings.....	12.50	110.00
8 to 12-in. cuttings.....	15.00	135.00
<i>ILEX C. ROTUNDIFOLIA</i> 6 to 8-in. cuttings.....	10.00	90.00
8 to 12-in. cuttings.....	12.50	110.00
12 to 15-in. cuttings.....	15.00	135.00
<i>ILEX GLABRA</i> , 2½-in. pots.....	15.00	135.00
<i>ILEX OPACA HOWARDI</i> , 2½-in. pots.....	17.50	160.00
<i>ILEX OPACA HUMES</i> , 2½-in. pots.....	17.50	160.00
<i>ILEX O. EAST PALATKA</i> , 2½-in. pots.....	17.50	160.00

Per 100 Per 1000

<i>AUCUBA JAPONICA</i> , qt. can.....	\$25.00	
<i>FEIJOA SELLOWIANA</i> , 2½-in. pots.....	12.50	
<i>GARDENIA RADICANS</i> , 2½-in. pots.....	12.50	
<i>FICUS REPENS</i> , 2½-in. pots.....	15.00	
<i>ILEX VOMITORIA</i> , 2½-in. pots.....	17.50	
<i>ILEX VOMITORIA</i> , dwarf, 2½-in. pots.....	15.00	
<i>MAHONIA BEALEI</i> , qt. can.....	25.00	
<i>NERIUM OLEANDER</i> , pink, 3-in. pots.....	15.00	
<i>OSMANTHUS FRAGRANS</i> , 8 to 12-in. cuttings.....	15.00	
12 to 18-in. cuttings.....	17.50	
<i>PODOCARPUS SINE</i> , 2½-in. pots.....	15.00	
<i>PYRACANTHA FORMOSANA</i> , 2½-in. pots.....	17.50	
<i>STAR (CONFEDERATE) JASMINE</i> , 2½-in. pots.....	15.00	
qt. can.....	25.00	

All potted liners packed in paper cups with sphagnum moss and waterproof paper and shipped in wire-bound crates. Price list and

Azaleas, Camellias, Magnolias and other orna-
mentals on request.

OVERLOOK NURSERIES, INC., Mobile, Ala.

Route 2

LINING-OUT STOCK

	Per 100	Per 1000
1,500 <i>Ampelopsis velitchii</i> , 2-yr., T, F.R.....	\$25.00	\$200.00
2,000 <i>Ampelopsis velitchii</i> , 3-yr., TT, F.R.....	35.00	300.00
3,500 <i>Azalea mollis</i> , 2-yr., T.....	25.00	200.00
4,000 <i>Berberis thunbergii</i> , 3-yr., T, F.R., 15 to 18 ins.....	25.00	200.00
4,000 <i>Berberis thunbergii</i> , 3-yr., purpurea, 3-yr., T, F.R., 15 to 18 ins.....	30.00	250.00
1,000 <i>Chamaecyparis squarrosa</i> Boulevard (formerly K&C), 9 to 12 ins.....	40.00	350.00
5,000 <i>Colomesia variegata</i> , 2-yr., T, F.R.....	30.00	250.00
9 to 12 ins.....	30.00	250.00
10,000 <i>Cydonia japonica</i> , 1-yr., seedlings.....	4.50	35.00
2,000 <i>Cydonia japonica</i> , 2-yr., T, F.R.....	8.50	75.00
500 <i>Ilex convexa</i> , 3-yr., T, F.R., 9 to 12 ins.....	40.00	350.00
500 <i>Ilex Longfellow</i> , 3-yr., T, F.R., 9 to 12 ins.....	40.00	350.00
500 <i>Ilex Tennyson</i> , 3-yr., T, F.R., 9 to 12 ins.....	40.00	350.00
1,000 <i>Koeleruteria paniculata</i> , 1-yr. seedlings.....	7.50	70.00
9 to 12 ins.....	8.50	80.00
50,000 <i>Pachysandra</i> , 2-yr., 10,000 <i>Rosa multiflora</i> , seed- lings, 2 to 3 ins.....	2.50	18.00
500 <i>Tilia cordata</i> , 1-yr. seed- lings, 6 to 9 ins.....	10.00	95.00
1,000 <i>Viburnum dilatatum</i> , 2-yr., T, F.R., 6 to 9 ins.....	25.00	200.00
1,500 <i>Vinca minor</i> , 3-in. pots.....	15.00	140.00

T—once transplanted.

TT—twice transplanted; F.R.—field row.

Samples mailed on request.

BOULEVARD NURSERIES

Newport, R. I.

BEDDED STOCK

Ilex crenata convexa bullata	100	1000
1-yr., good breaks	\$18.00	\$150.00
2-yr., 6 to 8 ins.	28.00	250.00
2-yr., 8 to 10 ins.	33.00	300.00
Taxus capitata, 1-yr., S.	6.00	50.00
Field-grown, ground cover size.		
Euonymus fort. coloratus, 1-yr.	\$15.00	\$125.00
300 at 1000 rate.		

GOLDEN GOOSE LINERS

For immediate delivery or for reservation.
All quotations are for beautiful lining-out stock from 2 1/2-in. pots, grown in open beds, upon field conditions and ready for field planting.

	Per 100
Ilex cornuta femina, 6 to 8 ins.	\$10.00
10 to 12 ins.	12.00
Ilex cornuta burfordi, 6 to 8 ins.	8.00
10 to 12 ins.	10.00
Ilex crenata rotundifolia, 6 to 8 ins.	8.00
10 to 12 ins.	10.00
Ilex crenata bullata, 6 to 8 ins.	12.00
Ilex crenata microphylla, 6 to 8 ins.	14.00
Ilex opaca howardi (improved American Holly), 8 to 10 ins.	16.00
Photinia serrulata, 8 to 10 ins.	12.00
Eunymus radicans (small leaf), 8 to 10 ins.	8.00
Eunymus patens (large leaf), 8 to 10 ins.	8.00
Ligustrum lucidum compactum, 8 to 10 ins.	10.00
Our Hollies are grown from either cuttings or grafts, from well-berried specimens, insuring berries for you.	
This stock guaranteed 100 per cent satisfactory, or return for full refund.	
TERMS: Packing without cost. 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.	

EVERGREEN NURSERIES

Poplar Pike
Germantown, Tenn.

HEAVY, TOP-GRADE LINERS

2 1/2-in. pots.

	Each per 1000 rate
1-YR. UNDER LATH	
Andorra Juniper	\$0.14
Biota aurea nana (Berckmans')	.18
Biota bakeri	.18
Biota bonita, upright	.18
Biota Sybil	.18
Pfitzer Juniper	.16
Von Ehron Juniper	.14
Ilex crenata convexa (bullata)	.14
Ilex crenata rotundifolia	.14
Ilex cornuta burfordi	.15

2-YR. UNDER LATH

Andorra Juniper	.16
Pfitzer Juniper	.18
Von Ehron Juniper	.16
Ilex crenata convexa (bullata)	.16
Ilex crenata rotundifolia	.16
Ilex cornuta burfordi	.17

FIELD-GROWN

Improved English Juniper	
2-yr., XX, 10 to 12 ins.	.16
Greek Juniper, 1-yr., 10 to 12 ins.	.16
Swedish Juniper, 1-yr., 10 to 12 ins.	.12

BED-GROWN

Pyracantha lalandi	.12
TERMS: 2 per cent discount for cash with order. Free packing. Add 2 cents for each plant on orders of less than 250. F.O.B. nursery.	

E AND S NURSERY
H. C. Toif, Owner
Caledonia, Miss.

SATISFACTION GUARANTEED FROM THESE FINE LINERS

	6 to 8 ins.	8 to 12 ins.	12 to 18 ins.
Per 100			
Buxus harlandi	\$10.00	\$15.00	...
Gardenia radicans	10.00	...	...
Gardenia stricta nana	10.00	...	...
Ilex cassine angustifolia	15.00	...	...
Ilex crenata microphylla	12.50	15.00	...
Ilex crenata rotundifolia	10.00	12.50	...
Ilex cornuta burfordi	12.50	15.00	...
bed-grown liners	15.00	...	...
Ilex opaca femina	17.50	20.00	...
bed-grown liners	20.00	...	...
Ilex vomitoria femina	15.00	17.50	...
Ilex vomitoria femina	15.00	...	...
18 to 24 ins. 120.00 per 100.	12.50	15.00	...
Osmanthus fraxanifera	12.50	15.00	...
Osmanthus fortunei	12.50	15.00	...
Pyracantha crenato-serrata graberi, potted liners	15.00	17.50	...
Pyracantha coccinea lalandi, potted liners	15.00	...	...
Write for our latest catalog listing other stock.			

COTTAGE HILL NURSERY

4000 Japonica Lane Mobile, Ala.

LINING-OUT STOCK

	100	1000
Caryopteris, rooted cuttings	\$ 8.00	\$ 70.00
English Ivy, rooted cuttings	5.00	45.00
Eunymus, vegetus, rooted cuttings	7.00	60.00
Pyracantha lalandi rooted etng.	10.00	80.00
2 1/2-in. pots rooted etng.	20.00	180.00
Taxus cuspidata, rooted etng.	10.00	80.00
2 1/2-in. pots	24.00	220.00
Ilex rotundifolia, 2-in. pots	18.00	160.00

EDWARD GILSON & SON NURSERY

U. S. Rt. 20 Perry, O.

LINING-OUT STOCK

PLEASE NOTE!

Our mail address has been changed by the post office from Rt. 4, Box 130, Mobile, Ala. to 4000 JAPONICA LANE

Please note this new address on your records so that your correspondence may reach us promptly.

Write us for catalog listing the finest in liners.

COTTAGE HILL NURSERY

4000 Japonica Lane Mobile, Ala.

FLORETUM LINE-OUTS, NONE BETTER

No storage or collected stock. All outside nursery-grown. Dug fresh on order.
Coniferous and broad-leaved Evergreens.
P. KASAN, dwarfed form, heavy fruiting.
Shrubs, hedges, vines, ground covers.
Perennialia, colorful Mums.
Prices reasonable. Write for listing.
PRAIRIE SOUTHWEST FLORETUM
Fall River, Kan.

EVERGREEN LINERS

Please see our display ad in this issue.

NAUGHER NURSERY

Chase, Ala.

PYRACANTHA COCCINEA LALANDI

Hardy stock from selected fruiting plants.
Per 100
2 1/2-in. pots, T, 6 to 8 ins., branched...\$22.50
3-in. pots, TT, 8 to 10 ins., branched...32.50
P. KASAN, dwarfed form, heavy fruiting.
3-in. pots, TT, 8 to 10 ins., branched...32.50
Immediate shipment. Free packing for cash.
BABCOCK GARDENS
Rt. 2 Jamestown, N. Y.

PACHYSANDRAS

PACHYSANDRAS
Out of 2-in. pots, \$12.00 per 100, \$100.00 per 1000. F.O.B. Elizabeth, N. J.
DELAWARE VALLEY NURSERY
948 N. Broad St. Elizabeth, N. J.

PEONIES

PEONIES
Strong, healthy, cut from young stock.
3 to 5-eye, 25c; 2 to 3-eye, 18c.
3 to 5-eye 2 to 3-eye
Baroness Schroeder150 50
Bunker Hill, good red230 100
Duchess of Portland, single pink75 25
Edulis Superba300 100
Felix Crousse175 120
Festiva Maxima175 135
Frances Willard60 50
Karl Rosefield60 50
Lady Alexandra Duff100 70
L'Etincelante50 20
Mary Brand120 50
Mme. de Verville75 60
Mons. Jules Elie250 150
Mrs. Frank Beach55 35
Reine Hortense90 ..
Samuel Hughes40 40
Sarah Bernhardt40 25
Solange140 40
Sous le L. Bigot45 10
Tourangelle60 ..
Venus250 90
Walter Faxon100 20
Would sell the entire lot for 5c less per plant. ACT QUICKLY.
HILLENMEYER NURSERIES
Lexington, Ky.

PEONIES IN STORAGE FOR IMMEDIATE OR LATER DELIVERY.

Individually wrapped if desired.
Ask for list of varieties.
THE COTTAGE GARDENS,
Lansing 17, Mich.

PHLOX

PHLOX SUBLATA (CREEPING PHLOX)
Admiration, dainty pink with white eye
Alba, pure white flowers
Astro, deep orchid-rose
Blue Hills, attractive pale blue
Butterfly, lilac blush with purple eye
Crimson Beauty, showy cyclamen-red
Sensation, pure pink with red eye
Clumps, with 8 to 8-in. spread (may be divided if desired), \$15.00 per 100, \$135.00 per 1000, prepaid.
Transplants, from field rows, \$9.00 per 100, \$85.00 per 1000, prepaid.
Liners, \$5.00 per 100, \$45.00 per 1000, prepaid.

250 or more of a variety at 1000 rate.
Properly moss packed, labeled and shipped transportation prepaid by us. Cash, please.

TANGLEWOOD FARM
Box 336-N Clinton, S. C.

CHOICE PHLOX

1 and 2-yr., field-grown. 10 100
Africa\$1.80 \$15.00
Baron Von Comte1.80 15.00
Commander Von Hindenburg1.80 15.00
Fire Globe1.80 15.00
Lillian (cameo-pink)1.80 15.00
Sunset1.80 15.00
Thor Beauty1.80 15.00
Shipments in March, April and May.
Cash with order, please.
THE MARTIN NURSERIES
P. O. Box 24 Geneva, O.

HARDY PHLOX.

Strong No. 2 grade, immediate delivery.
Adonis, bright red\$8.00 per 100
American Beauty, deep pink7.00 per 100
Cameo Queen, delicate pink8.00 per 100
C. Vandenburg, lavender-blue7.00 per 100
Elaine, orange-crimson8.00 per 100
Esquire, rose-pink8.00 per 100
Leo Schlageter, scarlet7.00 per 100
Lynette, salmon-pink7.00 per 100
Orange Queen, orange and salmon8.00 per 100
Pink Charm, clear pink7.00 per 100
Pinkette, soft pink8.00 per 100
Ruby Lee, plum-red7.00 per 100
Spitfire, salmon-orange8.00 per 100
World Peace, pure white8.00 per 100
Phlox note: All phlox are bundled in 25 lots. We find the No. 2 grade useful for spring counter sale in containers and for lining-out to the field for late summer sales.
CUNNINGHAM GARDENS, INC.
Waldron, Ind.

PHLOX SUBLATA (CREEPING)
1-year-old, undivided, field-grown clumps available for delivery when weather permits.
Per 100 Per 1000
Atropurpurea, showy wine-red\$1.50 \$12.00
Alba, a good white1.50 12.00
Blue Hills, sky-blue1.50 12.00
Emerald Pink, very showy pure pink with rich, glossy evergreen foliage1.50 12.00
Terms: Cash, or 25 per cent, balance C.O.D.
WALTERS GARDENS
Route 2 Zeeland, Mich.

GROWER OF HARDY PHLOX.
Write for price list. A free 14x21 color Phlox picture with every \$15.00 order.
MARVIN HOEZE, II, 2, LYNDEN, WASH.

PRIVET

PRIVET
We can still supply
Ligustrum Amur River North.
5 canes and up, very nice.
Per 100
15 to 18 ins.\$11.00
18 to 24 ins.13.00
2 to 3 ft.17.00
LITTLE MOUNTAIN VIEW NURSERIES
Rt. #4 Mentor, O.

CALIFORNIA PRIVET
(Ligustrum ovalifolium)
Heavily rooted, best quality.
18 to 24 ins.\$50.00 per 1000
2 to 3 ft.100.00 per 1000
Ask for special quotations on larger quantities.

BOULEVARD NURSERIES
Newport, R. I.
A. R. N. PRIVET
Hardwood cuttings, from proven mother blocks; 5000 for \$15.00; hardwood cutting liners, \$10.00 per 1000; 9 to 12 ins., \$17.50 per 1000. Cash, packing free.
ALTA VISTA NURSERIES
Davenport, Ia.

Turn Stock into Dollars
by Listing It in the Classified Ads
of the American Nurseryman.

RHODODENDRONS

RHODODENDRONS
Lining-out stock for spring 1956 delivery.
Hybrids, hardy varieties, 2-year grafts
Reestablished plants, with ball
Caractacus, purplish crimson
Catawbiense alba, white
Catawbiense Bourault, rosy lilac
Catawbiense grandiflorum, lilac
Charles Dickens, red
Dr. H. C. Dresselhuys, crimson
Dr. H. J. Lovink, bright crimson
Dr. V. H. Rutgers, red, fringed
Edward S. Rand, red
English roseum, rose
Giganteum, light red
Ignatius Sargent, purplish red
Lee's Dark Purple, purple
Mme. Carvalho, white
Nova Zembla, red
Roseum elegans, rose tinted lilac
Van der Broeke, crimson
Van der Hoop, carmine-rose
Van Weerden Poelman, crimson
Price \$1.25 each, \$550.00 per 500.
F.O.B. Red Bank, N. J.
PETER G. ZORG, WHOLESALE NURSERY
P. O. Box 562 Red Bank, N. J.
Representative for: J. Blaauw & Co., Boskoop, Holland.

RHODODENDRONS
For immediate shipment. Unnamed hybrids of hardy ponticum, catawbiense parentage. Good foliage. For understock, growing on or over the counter sales. With firm, lightweight ball, twice transplanted, bed-grown.
4 to 6 ins., 20c each; approx. 25 lbs. per crate.
6 to 8 ins., 25c each; approx. 28 lbs. per crate.
8 to 12 ins., 30c each; approx. 32 lbs. per crate.
50 plants per crate. Order by crate only.
500 or more of a size, 10 per cent discount.
Lightweight, expert frost-proofed crating free. Cash with order.
RICHARD P. RESEL NURSERY
Mulino, Ore.

RHODODENDRON—Continued

2-YR. GRAFTED HYBRID RHODODENDRONS
1-yr. bedded and 1-yr. lath house grown.
Reds: Draelhuys, Rutgers, Betex, Lovink, E. S. Rand. Pinks: Roseum elegans and others.

Bed-run, 8 to 12 ins., \$1.50 each.
Minimum order 25 plants. Cash with order, free packing. Shipped express collect, beetle zone only.

WINDY HILL NURSERIES
Dr. C. R. Shuster, owner
Wood St. Phone 32744 Saltsburg, Pa.

RHODODENDRON
Hybrid roseum elegans.
Rooted cuttings with pent ball, 50c each.
1-yr., own-root, 9 to 12 ins., well branched, soil ball, \$1.10 each; BB, \$1.20 each.
No shipping. Ready about April 1.

WILLIAM SCHLUPP
Branch Pike and Church Road
Palmyra, N. J.
Phone Riverton 9-2859

RHODODENDRON HYBRIDS
1-year, field-grown grafted plants, imported from Holland in the spring, \$75.00 per 100, \$350.00 per 500, \$650.00 per 1000 lot.
List of varieties on demand.

PARMENTIER'S ROSES
Bayport, L. I., N. Y.

25,000 hybrid Rhododendrons, liners, cuttings, layers, grafts. Mostly red, some yellow, pink, white. Ready March 1. 150,000 Azaleas, flats, 2, 3, 4 yrs., all varieties.
Kordus Nursery, Deer Park Ave., Rt. 4, Huntington, L. I., N. Y.

RHODODENDRON HYBRIDS
1-year, field-grown grafted plants imported from Holland in the spring, \$75.00 per 100, \$350.00 per 500, \$650.00 per 1000 lot.
List of varieties on demand.

VERKADE'S NURSERIES, Wayne, N. J.

ROSEBUSHES

ROSES
Highest quality, field-grown; no better or cleaner stock than Kriders Roses. Vigorous and disease-free. Ideal for potting. Order now for immediate or later delivery. Satisfaction guaranteed.

HYBRID TEA, 2-yr. No. 1
RED
Crimson Glory, Picture,
Poinsettia, Betty Upchurch,
Ami Quinard, TWO-TONE
Red Radiance, Tallman,
Countess Vandal

WHITE
K. A. Victoria, YELLOW
F. K. Druschki, Golden Dawn,
POLYANTHUS Eclipse,
Orleans, pink F. J. Grootendorst, pink
Edith Cavell, red F. J. Grootendorst, red
Golden Salmon, salmon

CLIMBING ROSES
Blaze, red American Beauty
Gold Rush, yellow Tallman, two-tone
Prices on above 10 100 1000
2-yr., No. 1 \$5.50 \$50.00 \$475.00
All orders of 250 plants or more may be figured at the 1000 rate.

PATENTED TEA ROSES, 2-YR., NO. 1
10 100
Chrysler Imperial, red \$12.50 \$120.00
Charlotte Armstrong, cerise, 10.00 95.00
Festival, thornless red, 9.00 75.00
Mirandy, dark red, 10.00 95.00
Sutter's Gold, deep gold, 11.00 100.00
Helen Traubel, two-tone pink, 12.50 120.00
Pera, Elsenhower, red, 10.00 95.00
Mojave, orange, 13.75 130.00
Queen Elizabeth, pink, 13.75 130.00
Roundelay, red, 13.75 130.00
Buccanear, canary-yellow, 12.50 120.00
Tiffany, two-tone pink, 13.75 130.00

FLORIBUNDA ROSES, 2-YR., NO. 1
10 100
Fashion, coral and red, \$10.00 \$95.00
Goldilocks, yellow, 9.00 75.00
Red Pinocchio, red, 9.00 75.00
Floradora, orange, 5.50 50.00
Red Ripples, red, 5.50 50.00
Improved Lafayette, red, 5.50 50.00
Vogue, cherry-coral, 10.00 95.00
Lilbet, salmon, 10.00 95.00
Jlimby Cricket, orange, 12.50 110.00
Ma Perkins, shell-pink, 10.50 95.00
Masquerade, multicolor, 11.50 100.00

THE KRIDER NURSERIES, INC.
Middlebury, Ind.

ROSEBUSHES
2-YEAR PLANTS
Grown, graded and packed to perfection.
246 varieties and 12 different types to choose from.

WRITE TODAY FOR PRICES AND BOOK YOUR REQUIREMENTS NOW!

ROSEMONT NURSERIES
D. L. Thompson, Owner
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Tyler, Tex.

MENTOR-GROWN ROSES
PATENTED AND COMMON
Visitors welcome. Price list on request.
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HYBRID TEAS, 2-YR. NO. 1
Crimson Glory, McGredy's Yellow
Edith Krause, Narzisse
Etoile de Holland, Nigier Boy
Faience, Tallman
Golden Sastago, Texas Centennial
Korova, Blaze (climbing)

FLORIBUNDAS, 2-YR. NO. 1
Floradora, Eutin
Improved Lafayette, Rosenelfe
Prices on above

\$60.00 per 100, \$550.00 per 1000.

PATENTED HYBRID TEAS, 2-YR. NO. 1
Each, 10 20 100
Buccanear, 1.40 \$1.25 \$1.20
Chrysler Imperial, 1.40 1.25 1.20
Confidence, 1.10 1.00 .95
Dr. Debat, 1.10 1.00 .95
Horace McFarland, 1.10 1.00 .95
Helen Traubel, 1.40 1.25 1.20
K. T. Marshall, 1.00 .87½ .75
Miami, 1.10 1.00 .95
Mirandy, 1.10 1.00 .95
Mission Bella, 1.10 1.00 .95
Mojave, 1.50 1.37½ 1.30
Nocturne, 1.10 1.00 .95
Queen Elizabeth, 1.50 1.37½ 1.30
Rubaiyat, 1.00 .87½ .75
Sutter's Gold, 1.25 1.12½ 1.05
Symphonie, 1.10 1.00 .95
PATENTED FLORIBUNDAS, 2-yr. No. 1
Donald Prior, 90 .75 .70
Fashion, 1.10 1.00 .95
Pink Bountiful, 90 .75 .70
Vogue, 1.10 1.00 .95

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WESTERN-GROWN ROSEBUSHES
Harvest time has started now. Full assortment of varieties and grades, also booking orders for individually wrapped with colored pictures for counter sales.

Write for descriptive price list with full assortment of Rosebushes, shrubs, fruit trees and vines.

HOME NURSERY GREENHOUSES, INC.
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ROSEBUSHES.
Wholesale only.
I GIVE UP!

After several hours trying to write an ad with sales appeal, will simply say they are the best I have ever seen. Write for complete list and prices today.

NEW LONDON ROSES
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FIELD-GROWN ROSEBUSHES
FINEST QUALITY
Hybrid Teas, Floribundas,
Polyanthas and Climbers.
Price and variety list on request.
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ROSES
Kissed by the breezes of Lake Erie.
Bare root, potted or try our NEW eye appealing packaged Roses. Also packaged shrubs and fruit trees. Send for list today.

FELIX ZAMPINI & SONS
Painesville, O.

ROSEBUSHES
Have one of best crops in my 20 years of growing. Heavy No. 1 grade, 35c; No. 1½ grade, 27c; No. 2 grade, 20c each, in 1000 lots. 58 varieties, also 27 patented varieties.
List on request.

TATE NURSERY, R. 3, TYLER, TEX.

300,000 Rosa multiflora seedlings, thorny variety for fences or understock. Write us your needs. Samples and prices by return mail. R. E. Hesselchwerdt, Osage Springs Nursery Co., Rogers, Ark.

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LAWN SEED
MERION BLUE GRASS
ZOYSIA JAPONICA
Lawn seed mixture
1 lb. covers 700 sq. ft.
\$3.50 per lb., \$16.25 per 5 lbs. postpaid.
WILD WHITE CLOVER
Small leaved. Ideal for lawns.
\$3.00 per 2-lb. bag, \$5.50 per 5-lb. bag, postpaid.

Send for descriptive leaflets and complete wholesale lawn seed price list.

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SEEDSMEN, INC.
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COLORADO TREE SEED
Blue Spruce, Engelmann Spruce,
Concolor Fir, Juniperus scopulorum.

WE COLLECT OUR OWN
high-quality, high-altitude seed,
reasonably priced.

Write for samples and prices.

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STRELITZIA REGINAE SEED
Minimum order 100 seeds.

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WILD FLOWER AND OTHER PERENNIAL SEEDS.

LIST ON REQUEST.

AMERICAN PERENNIAL GARDENS
P. O. BOX 37
GARDEN CITY, MICH.

SHRUBS AND TREES**POTTED GRAFTS FOR SPRING**

	Per 100	Per 1000
Acer palmatum atropurpureum	\$5.00	100.00
Acer palmatum atropurpureum dissectum	65.00	100.00
Cornus florida alba-plena	50.00	100.00
Cornus florida pendula	50.00	100.00
Cornus florida rubra	50.00	100.00
Cornus parviflora glauca	50.00	100.00
Fagus sylvatica asplenifolia	50.00	100.00
Fagus sylvatica pendula	50.00	100.00
Fagus sylvatica riversi (Purple Beech)	50.00	100.00
Picea pungens moerhousii	100.00	100.00
Picea pungens koeleri	100.00	100.00
Pinus cembra	50.00	100.00
Pinus parviflora glauca	50.00	100.00
Pinus strobus nana	50.00	100.00
Pinus strobus pendula	50.00	100.00
Pinus strobus fastigiata	50.00	100.00
Tsuga canadensis sargentii	50.00	100.00

ROOTED CUTTINGS

	Per 100	Per 1000
Azalea Hino-Crimson	\$12.00	\$100.00
Azalea hindoegiri	12.00	100.00
Pieris japonica	12.00	100.00
Azalea Louise Gable	20.00	100.00

BEDDED OUTSIDE 1 YEAR

	Per 100	Per 1000
Azalea Hino-Crimson	15.00	125.00
Azalea hindoegiri	15.00	125.00
Buxus sempervirens	10.00	90.00
Eunonymus patens	10.00	90.00
Ilex bullata	10.00	90.00
Ilex crenata	10.00	90.00
Ilex rotundifolia	12.00	100.00
Juniper, Andorra	12.00	100.00
Juniper, communis aurea	12.00	100.00
Juniper, Hets	12.00	100.00
Juniper, hibernica	10.00	90.00
Juniper, Pfitzer	12.00	100.00
Pachysandra	4.00	35.00
Pyracantha lalandi, potted	15.00	100.00
Retinospora plumosa globosa	10.00	90.00
Taxus cuspidata	10.00	90.00
Thuja globosa compacta	10.00	90.00
Thuja nigra	10.00	90.00
Thuja vervaenae	10.00	90.00

3-YEAR TRANSPLANTED SEEDLINGS

	Per 100	Per 1000
Thuja occidentalis	10.00	90.00
Picea excelsa	6.00	50.00
Picea pungens glauca	7.00	60.00
Picea (White Spruce)	6.00	50.00
Tsuga caroliniana	10.00	90.00

1-YEAR SEEDLINGS

	Per 100	Per 1000
Acer palmatum	4.00	35.00
Eunonymus alatus compactus	5.00	40.00
Fagus sylvatica	7.00	65.00
Taxus capitata	5.00	40.00
Taxus capitata, transplants	6.00	50.00

2-YEAR SEEDLINGS

	Per 100	Per 1000
Douglas Fir	4.00	35.00
Ilex crenata	4.00	35.00
Taxus capitata	8.00	70.00
Taxus capitata, transplants	10.00	90.00
Thuja orientalis	3.50	30.00
Syringa vulgaris	3.50	30.00

3-YEAR SEEDLINGS

	Per 100	Per 1000
Picea excelsa	3.50	25.00
Picea pungens glauca	4.00	35.00
Picea rubens, transplants	6.00	50.00
Picea (White Spruce)	3.50	25.00
Pinus densiflora	5.00	40.00
Pinus Mugham Tyrolean transplants	6.00	50.00
Pinus sylvestris	3.50	25.00
Tsuga canadensis	6.00	50.00

VAN DINE NURSERY

Berdan Ave. Preakness, Paterson, N. J.

ORDER YOUR ROOTED CUTTINGS NOW

For SPRING DELIVERY
Cuttings taken from clean, healthy, vigorous plants and rooted by us in our own greenhouses. We are accepting orders for delivery April and May, 1956.

Ilex convexa Juniperus pfitzeriana
Ilex rotundifolia Juniper, Andorra
Ilex microphylla Juniper, Hets
Ilex hederifolia Taxus hunekeana
Ilex glabra Taxus canadensis
Ilex crenata (globe) Taxus cuspidata
Ilex crenata (globe) Taxus canadensis

Buxus sempervirens \$85.00 per 1000
Junipers 80.00 per 1000
Arborvitae and Boxwood 75.00 per 1000

Shipped according to your directions. Shipping charges added to order. Packing free.

CORNER & AMOS, INC.
129 Dutch Road
Charleston, W. Va.

THUJA ORIENTALIS
2-yr. seedlings
\$3.00 per 100
\$28.00 per 1000

BORK NURSERY
Onarga, Ill.

HEAVY FINISHED STOCK

All prices are B&B, F.O.B. our nurseries.	
	Per 100
1200 Abella gr. fl. 2 to 3 ft.	\$130.00
1000 Azalea hinodogiri, 12 to 14 ins.	210.00
500 Azalea hinodogiri, 14 to 16 ins.	260.00
500 Azalea hinodogiri, 18 to 20 ins.	335.00
1000 Azalea Firefly, 12 to 15 ins.	220.00
100 Azalea Pr. Isabelle, 30 to 35 ins.	750.00

American Boxwood

250 of 20 ins. h., 14 to 16-in. spr.	500.00
250 of 24 ins. h., 20-in. spr.	700.00
250 of 17 ins. h., 17-in. spr.	400.00
350 of 18 ins. h., 14 to 15-in. spr.	450.00
200 of 16 ins. h., 12-in. spr.	300.00

1000 English Boxwood in different sizes

14 ins. h., 12 to 14-in. spr.	300.00
18 ins. h., 15 to 18-in. spr.	500.00
22 ins. h., 18 to 20-in. spr.	575.00
24 ins. h., 18 to 22-in. spr.	1250.00
28 ins. h., 20 to 24-in. spr.	1750.00
50 of 30 ins. h., 30-in. spr.	5000.00
25 of 36 ins. h., 30-in. spr.	6500.00
20 to 24 ins. h., 22-in. spr.	2000.00
400 Berberis julianae, 24 to 30 ins.	300.00
400 Berberis julianae, 18 to 24 ins.	200.00
1000 Ilex rotundif., 15 to 18-in. spr.	200.00
18 to 24-in. spr.	350.00
24 to 30-in. spr.	500.00

1300 Ligustrum lucidum, 24 to 30 ins.

1500 Nandina domestica, 2 to 3 ft.	160.00
500 Ilex corn. fem., 18 to 24-in. spr.	325.00
100 Ilex corn. fem., 24 to 30-in. spr.	575.00
350 Osmanthus aquif., 18 to 24 ins. h.	250.00
100 Osmanthus fort., 30 to 36-in. spr.	750.00
200 Ilex pernyi, 18 to 24 ins. high.	250.00
24 to 30 ins. high.	375.00
30 to 36 ins. high.	500.00

500 Sugar Maples, B&B, 50c extra.

B.R., 6 to 7 ft. high.	250.00
B.R., 7 to 8 ft. high.	350.00
300 Norway Maples, B&B, 50c extra.	
B.R., 8 to 10 ft. high.	375.00
B.R., 10 to 12 ft. high.	450.00
50 Silver Maples, B&B, 50c extra.	
B.R., 1 1/2-in. caliper.	375.00
B.R., 2-in. caliper.	450.00

100 Spruce thunbergi, 5 to 7 ft. h.

50 Jap. Quince, 18 to 24 in. spr.	650.00
100 Viburnum theifernum, 3 to 4 ft. h.	125.00
4 to 5 ft. high.	175.00
50 Cephalotaxus harr., 18 to 20 ins. h.	250.00
50 Cephalotaxus harr., 20 to 24 ins. h.	375.00
100 Pyracantha form., 18 to 24-in. spr.	250.00
24 to 30-in. spread.	375.00

Special rates for 500 or 1000 lots.

BOXWOOD NURSERIES

Route 64 Mocksville, N. C.

Phone 384-R or 384-W

QUALITY NURSERY-GROWN SEEDLINGS

All our seedlings are grown in open beds with proper irrigation and fertilization. They have good caliper for height.

ACER GINZA (RED MAPLE)

Best dwarf Maple, Scarlet autumn foliage; red fruits in summer when leaves are green.

Excellent for specimen or screening.

	Each	100 rate	1000 rate
6 to 12 ins.	4c	3c	
12 to 18 ins.	6c	4c	
18 to 24 ins.	9c	6c	

CELASTRUS SCANDENS (BITTERSWEET)

8 to 12 ins.	8c	6c	
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FRAXINUS LANCEOLATA, best of Ashes.

12 to 18 ins.	2c	1 1/2c	
18 to 24 ins.	3c	2 1/2c	

JUNIPERUS VIRGINIANA, Minnesota blight-resistant strain.

6 to 8 ins.	5c	4c	
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LIQUIDAMBAR STYRACIFLUA (SWEET GUM), grown from Illinois seed.

12 to 18 ins.	7c	6c	
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PINUS SYLVESTRIS (SCOTCH PINE).

Christmas tree type, 2-yr., root-pruned.			
4 to 6 ins.	4c	2 1/2c	
6 to 8 ins.	4c	4c	
8 to 12 ins.	8c	6c	

PRUNUS AMERICANA

18 to 24 ins.	4c	3c	
24 to 30 ins.	5c	4c	
30 to 42 ins.	7c	6c	

PRUNUS SEROTINA (BLACK CHERRY), excellent shade tree.

12 to 18 ins.	5c	4c	
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QUERCUS BOREALIS MAXIMA (NORTHERN RED OAK)

6 to 12 ins.	6c	5c	
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TAXODIUM DISTICHUM (CYPRRESS)

18 to 24 ins.	20c	16c	
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THUJA ORIENTALIS, hardy Rochester strain.

4 to 6 ins.	4c	2c	
6 to 8 ins.	5c	4c	
8 to 12 ins.	9c	7c	

VIBURNUM DENTATUM

12 to 18 ins.	9c	7c	
18 to 24 ins.	12c	9c	

ROSA MULTIFLORA, thorny, upright type.

	Per 1000
1 mm., 8 to 12 ins.	\$12.50
2/16, 3/16-in. cal., 10 to 15 ins.	16.00
3/16, 1/4-in. cal., 15 to 18 ins.	23.00
1/4, 3/8-in. cal., 18 to 24 ins.	35.00

FORREST KEELING NURSERY

Elisberry, Mo.

CHINESE ELMS

Well branched, hand-pruned, straight.

	Each	100
6 to 8 ft.	\$0.50	
8 to 10 ft. ....	.75	

SIMS FRUIT & NURSERY FARMS

Phone 6005 W3 Hannibal, Mo.

SEEDLINGS, TRANSPLANTS

Per 100 Per 1000

Taxus capitata

2-yr., 3 to 6 ins. \$10.00 \$90.00

Austrian Pine

2-yr., 3 to 6 ins. 3.50 25.00

3-yr., 8 to 12 ins. 5.00 35.00

4-yr., 12 to 24 ins. 8.00 50.00

T. 6 to 12 ins. 4.00 30.00

T. 12 to 18 ins. 12.00 75.00

Scotch Pine

2-yr., 3 to 6 ins. 3.50 25.00

T. 4 to 8 ins. 6.00 50.00

Mugho Pine

2-yr., 1 to 3 ins. 4.00 30.00

Ponderosa Pine

T. 8 to 15 ins. 5.00 40.00

Colorado Spruce

2-yr., 1 to 3 ins. 3.50 20.00

3-yr., 3 to 8 ins. 5.00 40.00

T. 4 to 8 ins. 10.00 80.00

Engelmann Spruce

2-yr., 1 to 3 ins. 3.50 25.00

Norway Spruce

2-yr., 3 to 6 ins. 3.50 20.00

5000 or more run of beds, \$15.00 per 1000.

T. 6 to 12 ins. 8.00 60.00

T. 12 to 15 ins. 15.00 120.00

Douglas Fir

2-yr., 3 to 6 ins. 4.00 25.00

T. 4 to 8 ins. 10.00 80.00

Larch, European

2-yr., 8 to 12 ins. 3.50 25.00

Thuja, American

2-yr., 2 to 4 ins. 3.50 20.00

Hemlock, Canadian

2-yr., run of beds 5.00 35.00

2-yr., graded, 4 to 8 ins. 8.00 50.00

Privet, Regelia, seedlings

2-yr., 12 to 18 ins. 10.00 60.00

3-yr., 15 to 24 ins. 12.00 80.00

Viburnum lantana

T. 6 to 10 ins. 12.00
| TT, 12 to 18 ins. | 15.00 | |

Acer palmatum

T. 4 to 8 ins. 12.00

T. 8 to 12 ins. grafting size, 15.00

Complete catalog on request.

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Freeport Rd. Butler, Pa.

EVERGREENS AND TREES

Sheared for specimen quality. Each 50 to 100

Juniperus chinensis keteleeri,

3 to 4 ft. \$2.60

5 to 6 ft. 4.75

virginiana burki, 3 to 4 ft. 2.70

5 to 6 ft. 4.25

virginiana canaerit, 3 to 4 ft. 4.75

5 to 6 ft. 3.00

virginiana glauca, 3 to 4 ft. 4.00

5 to 6 ft. 3.25

virginiana (Dundee), 3 to 4 ft. 5.00

5 to 6 ft. 1.00

communis (Irish), 3 to 4 ft. 1.25

5 to 6 ft. 1.35

japonica sylvestris, 3 to 4 ft. 2.25

5 to 6 ft.70

Euonymus patens, 12 to 18 ins. 1.00

18 to 24 ins. 1.20

Ilex burfordi, 15 to 18 ins. 1.20

18 to 24 ins. 1.75

24 to 30 ins. 1.70

Yaupon (berried), 18 to 24 ins. 2.10

24 to 30 ins. 2.75

30 to 36 ins. 2.50

Magnolia grandiflora, 3 to 4 ft. 3.50

4 to 5 ft. 1.00

Photia serrata, 18 to 24 ins. 1.30

24 to 30 ins. 1.50

30 to 36 ins.50

Maple trees (soft red), 5 to 7 ft.

(Surplus)

All above Evergreens sheared for specimen landscape quality

TWTY NURSERY

Two miles out Dallas Highway

Texarkana, Tex.

LANDSCAPE WHOLESALE LIST

We will deliver within a 500-mile radius.

Our truck will hold 100 to 150 B&B Evergreens for 16c a mile, one way. 25 of a kind at 100 rate. Each.

BALLED AND BURLAP

Each per 100

American Arborvitae, 18 to 24 ins. \$1.50 \$1.25

Pyramidal Arborvitae, 24 to 30 ins. 2.50 2.25

30 to 36 ins. 3.00 2.75

Douglas Fir, 24 to 30 ins. 3.00 2.75

30 to 36 ins. 3.75 3.50

36 to 48 ins. 4.50 4.00

Juniperus virginiana, sheared, 24 to 30 ins. 3.25 3.00

Mugho dwarf Pine, 18 to 24 ins. 3.60 3.50

24 to 30 ins. 5.00 4.50

50 to 60 ins. 15.00

Black Hills Spruce, 18 to 24 ins. 2.50 2.35

30 to 36 ins. 3.00 2.75

36 to 42 ins. 3.50 3.25

Colorado Blue Spruce, 24 to 30 ins. 3.50 3.50

36 to 48 ins. 6.50 6.50

Colorado Green Spruce, 36 to 42 ins. 3.25 3.00

42 to 48 ins. 3.60 3.50

Canadian Hemlock, 18 to 24 ins. 2.75 2.50

Hydrangea A.C.S. br., 24 to 36 ins.60 .55

White Birch, 4 to 5 ft., br.75 .75

6 to 8 ft., br. 1.40 1.25

8 to 10 ft., br. 1.75 1.65

American Elm, 10 to 12 ft., br. 3.50 3.00

1 1/2 to 2 in. br. 4.00 3.50

1 1/2 to 2 in. br. 5.00 4.50

SHORE EVERGREEN NURSERIES

Ewart, Mich.

COLORADO-GROWN

Per 100 Per 1000

Pinus ponderosa, 100

3000 3 to 6 ins., 2-yr. seedlings \$3.00 \$20.00

5000 6 to 8 ins., 2-yr. seedlings. 4.00 30.00

5000 8 to 10 ins., 2-yr. seedlings 5.00 40.00

Elm, Chinese,

6000 9 to 12 ins., seedlings 1.50 12.00

4000 12 to 18 ins., seedlings 2.00 18.00

Poplar, Lombardy, branched, 10 100

150 1 1/2 to 2-in. cal. \$.95 \$ 9.00

70 1 1/4 to 1 1/2-in. cal. 7.00 65.00

100 6 to 8 ft. 5.00 45.00

200 5 to 6 ft. 3.50 30.00

Poplar, bolleana, clean, well branched,

100 1 1/2 to 2-in. cal. 22.50 200.00

150 1 1/4 to 1 1/2-in. cal. 19.00 175.00

30 8 to 10 ft. 16.50 150.00

Montmorency Cherry,

500 11/16 and up, 1-yr. 11.00 100.00

1500 9/16 to 11/16, 1-yr. 9.00 85.00

Quoted F.O.B. Loveland, Colo.

KROH BROS. NURSERY

P.O. Box 536 Loveland, Colo.

ROOT GRAFTS

MALUS (flowering crab apple), \$12.00 per 100

Astragalus Hopsa

Bechtel Parkman

Dolgo Theifera

Eley Spectabilla

Floribunda Red and Silver

Glories

NEWER VARIETIES, \$

SHRUBS AND TREES—Continued

PINK DOGWOOD	
5 to 6 ft., 2-yr., B.R.	\$4.50
4 to 5 ft., 2-yr., B.R.	3.50
3 to 4 ft., 2-yr., B.R.	2.50
30 to 36 ins., 2-yr., B.R.	1.50
24 to 30 ins., 2-yr., B.R.	1.25
3 to 4 ft., 1-yr., B.R.	2.00
30 to 36 ins., 1-yr., B.R.	1.50
24 to 30 ins., 1-yr., B.R.	1.25
18 to 24 ins., 1-yr., B.R.	1.00
12 to 18 ins., 1-yr., B.R.	.65
6 to 12 ins., 1-yr., B.R.	.50
Pink Dogwood, dormant budded liners.	
\$25.00 per 100.	

WHITE DOGWOOD	
5 to 6 ft., 2-yr., B.R.	\$2.50
4 to 5 ft., 2-yr., B.R.	1.50
3 to 4 ft., 2-yr., B.R.	1.00
2 to 3 ft., 2-yr.	.50
18 to 24 ins., 2-yr.	.30

IKE HAWKERSMITH NURSERY
Winchester, Tenn.

EVERGREENS, B&B	
300 Andorra Juniper, 18 to 24 ins.	\$2.00
430 Andorra Juniper, 2 to 2½ ft.	2.50
700 Andorra Juniper, 2½ to 3 ft.	3.00
Full, properly sheared, compact plants.	
7500 Andorra Juniper, liners, 3-yr., 8 to 12 ins., tr.	\$17.00 per 100, \$150.00 per 1000.
DOGWOOD, white-flowering.	
800 3 to 4 ft.	\$2.25
1400 4 to 5 ft.	2.75
550 5 to 6 ft.	3.50
240 6 to 7 ft.	4.50
These are choice, nursery-grown, properly balled trees. Contact and see them. Phone 335.	
WHERRY'S NURSERIES, St. Marys, W. Va.	
Wholesale growers	

SURPLUS NURSERY STOCK	
Hydrangea P.G. big flowering type;	Per 100
2-yr.-old, 3 canes up, 3 to 4 ft.	\$11.00
2 to 3 ft., 3 canes up	10.00
White Dogwood, transplanted, 2-yr.-old,	
12 to 18 ins.	12.00
18 to 24 ins.	15.00
Spiraea vanhouttei, 2-yr.-old, 2 to 3 ft.	8.00
18 to 24 ins., branched	3.00
12 to 18 ins., heavy branched	2.00
Forsythia fortunei, 2-yr.-old,	
12 to 18 ins., branched	2.00
18 to 24 ins., branched	3.00
FAULKNER SPRINGS NURSERY	
P. O. Box 242	McMinnville, Tenn.

SHRUBS.	
Honeyuckle zabeli	
1-yr., 9 to 12 ins., lining-out.	\$ 6.00 per 100
2-yr., 2 to 3 ft.	30.00 per 100
3-yr., 3 to 4 ft., heavy	50.00 per 100
Honeyuckle morrowi	
3-yr., 3 to 4 ft., heavy	45.00 per 100
3-yr., 4 to 5 ft., heavy	60.00 per 100
Forsythia intermedia	
3-yr., 3 to 4 ft., heavy	40.00 per 100
3-yr., 4 to 5 ft., heavy	50.00 per 100
Can furnish out of storage or field; trucks only on 3 to 4 ft. and 4 to 5 ft. shrubs.	
Others packing at coast	

HENRY NURSERIES
Henry, Ill.

MAGNOLIAS	
Soulangiana, heavy 8 ft., B&B.	\$7.50;
heavy 5 ft., B&B.	\$6.00; heavy 4 ft., B&B.
\$5.00; heavy 3 ft., B&B.	\$3.50; 2 to 3 ft., 3-year-old, in beds.
\$1.50, B.R.; 18 to 24 ins., 2-year, in beds.	\$1.00. Magnolia stellata, 3x3 ft., very heavy, B&B.
\$4.50; 4x4 ft., very heavy, B&B.	\$6.50; 5x5 ft., very heavy, B&B.
\$3.50; 6 ft., very heavy, B&B.	\$12.50. Also Magnolia, speciosa, nigra, linnel, rustica rubra, parviflora and alexandrina.

BAIER LUSTGARTEN NURSERIES
Jericho Turnpike, Middle Island, L. I., N. Y.
Phone Yaphank 4-3444.

FLOWERING CRABS	
40 varieties, best of the old and newer varieties. 1-yr. whips and branched. Also 3-yr., once transplanted, 6 to 8 ft. Descriptive booklet available.	
Eley and Hopa, 4 to 5 ft., 90c each.	\$80.00 per 100; 5 to 6 ft., \$1.10 each, \$100.00 per 100.
THUNDERCLOUD PURPLE-LEAVED PLUM	
5 to 6 ft., well bra., \$1.10 each.	\$100.00 per 100
6 to 8 ft., well bra.	1.25 each, 112.00 per 100
6 to 8 ft., XX, well bra.	1.35 each, 132.00 per 100

SIMPSON ORCHARD CO.
U. S. 50 E. Vincennes, Ind.

LINERS	
Azalea mollis, 3-yr., br., 6 to 8 ins.	\$0.35
altacarensis, 3-yr., 4 to 6 ins., br.	.35
Clematis montana, 2-in. pots	.35
Daphne cneorum, rooted cuttings	.35
Daphne odora, 2-in. pots	.12
Gentiana acaulis, 6 to 8-in. spread	1.00
Pieris japonica, C. T., 2-in. pots	.20
Viburnum burkwoodi, rooted cuttings	.15
burkwoodi, 3-in. pots	.35

FOUR STAR NURSERY
8215 238th St. W. Edmonds, Wash.

SHRUBS AND TREES
See our Classified ad in this issue under LINING-OUT STOCK.
T. G. OWEN & SON, INC.
Columbus, Miss.

OAK SEEDLINGS

(Quercus)
We are offering the following varieties, grown under irrigation. White Oak (alba) and Pin Oak (palustris).
Per 100 Per 1000
9 to 12 ins., 2-yr. \$ 6.00 \$ 50.00
12 to 18 ins., 2-yr. 8.00 75.00
18 to 24 ins., 2 and 3-yr. 11.00 100.00

Cash with order, no packing charge.
HAGGERTY LANDSCAPE NURSERY
2600 S. 48th Lincoln 6, Neb.

LILACS
Fine, hardy French lilacs, in 10 varieties. Florance Stepman, Michael Buchner, Ludwig Spaeth, President Grevy, Hugo Koster, Charles Joly, Ruhn von Horstenstein, Hugo de Vries, Charles X. Mme. Lemoine.
2 to 3 ft. \$85.00 per 100
18 to 24 ins. 70.00 per 100
15 to 18 ins. 55.00 per 100
12 to 15 ins. 40.00 per 100

LITTLE MOUNTAIN VIEW NURSERIES
Rt. 84 Mentor, O.

SHRUBS AND TREES	
Euonymus vegetus, 3-yr.	100
15 to 18 ins., br.	\$70.00
Deutzia gracilis, 15 to 18 ins.	50.00
Deutzia gracilis, 18 to 24 ins.	60.00
Philadelphus virginialis, 18 to 24 ins.	35.00
Philadelphus virginialis, 2 to 3 ft.	45.00
Philadelphus virginialis, 3 to 4 ft.	65.00
Spiraea, Anthony Waterer, 15 to 18 ins.	45.00
Spiraea, Anthony Waterer, 18 to 24 ins.	55.00

FRENCH NURSERY CO., CLYDE, O.

LINING-OUT STOCK	
Deutzia gracilis, transplants,	Per 100
8 to 12 ins., bushy	\$15.00
Viburnum tomentosum, 2-yr. transplants,	
6 to 8 ins.	17.50
Spiraea Anthony Waterer, transplants,	
6 to 8 ins.	15.00
Viburnum lantana, transplants,	
10 to 15 ins.	12.00

JOHN BOS NURSERY, CLYDE, O.

ROOTED CUTTINGS FROM OPEN BEDS	
5000 Euonymus radicans, upright (Sarcoxie),	
500 Euonymus carrierei.	
7c each, per 100; 6c each, per 1000.	
Branched, transplants from field rows.	
600 E. radicans, upright (Sarcoxie), 8 to 12 ins.; 200 E. carrierei, 8 to 10 ins., 30c each.	
Cash with order, please.	

P. O. Box 87 Humansville, Mo.

WHITE BIRCH (PAPER)	
3 to 4 ft. seedlings	Per 100 Per 1000
4 to 5 ft. seedlings	\$12.00 \$110.00
5 to 6 ft. seedlings	22.00 200.00
6 to 8 ft. seedlings	37.00 350.00
6 to 8 ft. seedlings	67.00 630.00

Free packing for cash with order.
STRAUS LANDSCAPE SERVICE
& NURSERY

202 E. Circle Ave. Prospect Heights, Ill.

LIGUSTRUM JAPONICUM	
1-yr., T. well br.	2-yr. beds, mostly
F.O.B. Del.	F.O.B. Del.
8 to 12 ins., 8c	10c 12 to 18 ins., 8c
12 to 18 ins., 10c	12c 18 to 24 ins., 10c
18 to 24 ins., 12½c	15c 24 to 30 ins., 12½c
30 to 36 ins., 15c	20c 36 to 48 ins., 15c
48 to 60 ins., 20c	25c 60 to 72 ins., 20c
Minimum of 100 plants. Leaves removed.	

STEED'S NUR., P. O. Box 308, Candor, N. C.

PIN OAKS, PLANES
Platanus acerifolia, 2 to 2½ ins.
Quercus palustris, 1¼ to 2 ins.

LILACS
On own-root, named varieties.
Inspection invited.

LINDAU & DOHNE
Huntington, L. I., N. Y.

LINING-OUT HARD MAPLE	
(Acer saccharinum)	
2 to 3 ft., 12c each, 50 or more.	
4 to 6 ft., 22c each, 50 or more.	
6 to 7 ft., 50c each, 50 or more.	
Cash with order, packed FREE.	
Stock must be moved from ground it is on this season.	

UNADILLA NURSERY
Johnson City, N. Y.

WEEPING WILLOWS	
Salix niobe, 2-yr., staked plants.	
Per 100 rate Per 1000 rate	
4 to 5 ft., B.R.	\$0.45 \$0.35
5 to 6 ft., B.R.	.75 .55
6 to 8 ft., B.R.	1.00 .75
Ask for special quotations on B&B Willows.	

BOULEVARD NURSERIES
Newport, R. I.

YOU CAN SELL YOUR STOCK
QUICKLY AND WITH LESS EXPENSE
BY ADVERTISING IN
THE CLASSIFIED COLUMNS OF
THE AMERICAN NURSERYMAN

SPRING SURPLUS	
50 Weeping Cherry, 3-yr., 6 to 7 ft.	Each \$6.00
10 Prunus Kwanzan, 3-yr., 6 to 8 ft.	5.00
15 Prunus Mt. Fuji, 3-yr., 6 to 8 ft.	5.00
15 Prunus Amanogawa, 3-yr., 6 to 8 ft.	5.00
7 Prunus Shiro-fugen, 3-yr., 6 to 7 ft.	5.00
6 Prunus Naden, 3-yr., 6 ft.	4.00
25 Hornbeam (fastigiata), 3 to 4 ft.	4.00
25 Laburnum vossii, 6 to 8 ft.	5.00
Cash with order	

BRIMFIELD GARDENS NURSERY
245 Brimfield Rd. Wethersfield, Conn.

SHRUBS AND TREES	
Cherry-Laurel, 12 to 18 ins.	Per 100 Per 1000
18 to 24 ins.	\$ 4.00 \$35.00
Yaupon Holly, 6 to 12 ins.	6.00 50.00
12 to 18 ins.	8.00 70.00
Live Oaks, 12 to 18 ins.	4.00 35.00
2 to 3 ft.	8.00 80.00
American Holly, 6 to 12 ins.	10.00 90.00

L. H. BUTTER NURSERY CO.
Forest Hill, La.

50,000 SHADE TREES	
CHINESE ELM	
5 to 6 ft., ¼-in.	\$0.50
6 to 8 ft., ¼-in.	.75
8 to 10 ft., 1-in. cal.	1.00
1¼ to 1½-in. cal.	1.50
1½ to 2-in. cal.	2.00
Reduced price if in truckload lots.	

Phone 116
LUKE NURSERY, PAULS VALLEY, OKLA.

EVERGREENS AND SHRUBS
LARGE SIZE STOCK OUR SPECIALTY.
PHONE OR WRITE.
Phone Rock Hall 5693

BOB WHITE MEADOWS NURSERY
Rock Hall, Md.

VICARY GOLDEN PRIVET
(True dwarf type.)
The aristocrat of golden leaved shrubs.

Per 100 Per 1000	
Rooted cuttings, 4 to 6 in.	\$10.00 \$50.00
Send for complete trade list.	
Lining-out Evergreens and shrubs.	

SCARFF'S NURSERY, INC.
Box 5 New Carlisle, O.

Euonymus alatus compactus, transplants.
For spring 1956. Bare root, sturdy plants.
12 to 15 ins., branched low; each \$0.65 per 100
15 to 18 ins., branched low; each .75 per 100
18 to 24 ins., branched low; each .90 per 100
F.O.B. Northampton, Mass.
Free packing, if cash with order.
Twin Cedar Nursery, Williamsburg, Mass.

COLLECTED HARD MAPLE	
Straight stems. Good roots, well branched.	
6 to 8 ft.	Per 10 Per 100
8 to 10 ft.	\$10.00 \$90.00
10 to 12 ft.	15.00 140.00
12 to 14 ft.	20.00 190.00
12 to 14 ft.	25.00 240.00

SCOTCH GROVE NURS., Scotch Grove, Ia.

CORNUS FLORIDA
6-yr. transplants, heavy, 3 to 4 ft., \$1.00;
B. R., B&B, \$1.50; 1-yr. seedlings, 6 to 8 ins., \$30.00 per 1000; 2-yr. seedlings, 12 to 15 ins., \$50.00 per 1000; 3 and 4-yr., 24 to 36 ins., \$100.00 per 1000.

BAIER LUSTGARTEN NURSERIES
Jericho Turnpike, Middle Island, L. I., N. Y.

ABELIA GRANDIFLORA	
Heavily branched, excellent color.	
18 to 24 ins.	Per 100 Per 1000
2 to 3 ft.	\$35.00 \$300.00
Special discount on carload or truck lots.	

CHIPOLA NURSERIES
Marianna, Fla.

COTONEASTERS	
Horizontalis, 2½-in. pots	\$15.00 per 100;
6-in. cans, \$1.00. Divaricata, 2½-in. pots.	
\$15.00 per 100; 6-in. cans, \$1.00. Praecox,	
2½-in. pots, \$20.00 per 100; 6-in. cans, \$1.50.	

BAIER LUSTGARTEN NURSERIES
Jericho Turnpike, Middle Island, L. I., N. Y.
Phone Yaphank 4-3444.

EUONYMUS VEGETUS	
10,000 rooted cuttings, 2 to 4-in., \$75.00 per 1000;	
4 to 6-in., \$100.00. If you can use the block, write for special price, 25 per cent cash to hold order until spring.	
DeGRAFF NURSERY	
122 Titus Rd.	Ithaca, N. Y.
500 GLEDITSIA TRIACANTHOS INERMIS	
5 to 8 ft., twice transplanted.	
500 ILEX GLABRA	
18 to 30 ins., heavy, pruned, bushy plants.	
Above items will be priced row or graded.	

BUCKLIN FRUIT FARM & NURSERIES
Phalanx, N. J.

PAPER BIRCH (Betula papyrifera)
6 to 8 ft., straight, branched \$12.00 per 10.
RICHY NURSERY CO.
9941 N. E. Skidmore St. Portland 20, Ore.
Abelia grandiflora, liners, from 2-yr. open field-beds, cut back. Try some. 1000, \$60.00.
Mountville Nurseries, Mountville, Ga.

Must sell two acres assorted shrubs and perennials. The Flower Nook, Rt. 2, Box 42, Aurora, Ore.

VEGETABLE PLANTS

WHOLESALE PRICE LIST, 1956

VEGETABLE PLANTS

Plant variety	Date ready	Per 1000
Cabbage	Now	\$2.00
Collards	Now	2.00
Onions	Now	1.50
Lettuce	Mar. 15	3.50
Broccoli	Mar. 15	3.50
Cauliflower	Mar. 15	5.50
Peppers	Apr. 15	4.00
Eggplant	Apr. 15	4.00
Tomatoes	Apr. 15	3.50
Hybrid Tomatoes	Apr. 15	5.50
Vine Sweet Potatoes	Apr. 15	5.00
Bunch Sweet Potatoes	Apr. 15	8.25

All above priced F.O.B. Albany. Leading varieties. Write for catalog. Large, fresh plants. Prompt shipment. Write or wire.

PIEDMONT PLANT CO.
Dept. 905 Albany, Ga.

WANTED

WANTED

Finished stock, B&B
500 Taxus cuspidata, 12 to 15 ins.
1200 Taxus cuspidata, 15 to 18 ins.

WOOD-HOWELL NURSERIES, INC.
Bristol, Va.

WANTED TO BUY

2 Sophora japonica, 5 to 6-in. cal. 18 to 20 ft. high. Phone Gilbert 4-1081.

PARAMUS NURSERY, INC.
578 Paramus Rd. Paramus, N. J.

Wanted—Best Black Walnuts and Inter-laken seedless Grape vines and cuttings. The Specialty Nursery, Tonasket, Wash.

WANTED

1000 Lonicera pileata, 2500 Pachysandra terminalis, 2 to 3-yr. field plants; 2500 Hypericum calycinum, 2-yr. field plants.
Plants to be hard.
(Region Province of Ontario, Toronto.)
Mail price to
HUBER & SUTER, LIMITED
Landscape Contractors
60 Mary St. Brampton, Ont.

WANTED

1000 nursery-grown Sugar Maple, 1½ to 2½ ins. and 10 hybrid Rhododendrons, red and white, 4 to 5 ft.
MILLANE NURS. & TREE EXPERTS, INC.
Cromwell, Conn.

Surplus Stock

can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads.

SUPPLIES AND SERVICES

BIRD FEEDERS

BIRD FEEDERS

Wild bird feeding stations and houses are now big business. If located in a suburban or rural area, you can share BIG profits. Generous discounts, fast turnover, many repeat sales. Write on your letterhead for Catalog HN.

McHUTCHISON & CO.
95 Chambers St. New York 7, N. Y.
311 S.E. Belmont Portland 14, Ore.

FERTILIZERS

SOLUBLE FERTILIZERS

PETERS SPECIAL, 20-20-20, general purpose feed.
PETERS SPECIAL, 21-7-7, chelate iron, Azalea neutral.
PETERS SPECIAL, 21-7-7, chelate iron, Azalea acid.
\$6.00 per 25-lb. bag, \$20.00 per 100 lbs.
F.O.B. Allentown, Pa.
ROBERT B. PETERS CO.
739 N. 7th St. Allentown, Pa.

More customers for you!
Over 8,000 subscribers, all active buyers.
see your ad in the American Nurseryman.

FLATS

MINNESOTA WHITE CEDAR FLATS

Order by No.	Per 100	Price
No. 1, 14x20x2 3/4	320	\$25.00
No. 2, 14x20x3	400	29.00
No. 3, 12x16x2 3/4	260	19.00
No. 4, 12x16x3	275	22.50
No. 5, 14x16x2 3/4	275	21.50
No. 6, 14x16x3	290	25.50
No. 7, 15x22x2 3/4	380	28.50
No. 8, 15x22x3 3/4	425	33.00
No. 9, 11 1/2 x 22 1/2 x 2 3/4	320	23.00
No. 10, 11 1/2 x 22 1/2 x 3 3/4	400	26.75
No. 11, 14x16x5	450	30.00
No. 12, 8x16x5	160	16.00
No. 13, 8x16x5	215	19.50
Plant boxes, 5x8 1/2 x 2 3/4	45	5.00

All other sizes quoted on request.
5 per cent discount on order of 1000 or more.

The above measurements are inside. Bottoms and sides of cedar flats are 3/4-in. thick; ends are 3/4-in. Plant boxes are thinner.
All material surfaced on one side.

Your name and address printed up to 3 lines in black ink, on one or both end pieces at the following rates: Set-up charge, \$1.00, plus 1/4¢ per piece for the first 1000 ends, 1/4¢ per end thereafter. Shipped knocked-down in units of 25.

All shipments by truck unless otherwise ordered. F.O.B. Cook, Minn. Attach check.
H. C. HILL & SONS, Cook, Minn.

REDWOOD FLATS, K. D.

Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure. \$38.00 per 100.

1x1-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., \$3.50 per bdl.
50 pcs. to bundle, 5 ft., \$4.50 per bdl.
50 pcs. to bundle, 6 ft., \$5.50 per bdl.
Ship same day. Cash with order, please.
YOHO & HOOKER, Youngstown 2, O.

Surplus Stock

can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads.

LEAF MOLD

Decayed hardwood (Oak) leaf mold. Hard materials make best compost. Well composted, \$1.50 per 100-lb. bag, \$20.00 per ton. bagged; carlot, loose, \$16.00 per ton. Priced F.O.B. Stover, R. Blackman, Stover, Mo.

LABELS

DAHLIA OR TREE LABELS

	Plain Painted	Evermark
3 1/2 x 5/8 ins., notched (not wired)	3.30	4.10
3 1/2 x 5/8 ins., wired (copper)	3.30	4.10
4x5 ins. (cartons 1000 each)	3.30	3.95
5x5 ins. (cartons 1000 each)	3.60	4.30
6x5 ins. (cartons 1000 each)	3.90	4.85
8x5 ins. (cartons 500 each)	6.00	7.20
10x5 ins. (cartons 500 each)	7.00	8.50

GARDEN STAKES

	Price per carton	Price per 1000
8x 1/2 ins. (cartons 250 each)	2.50	3.00
10x 1/2 ins. (cartons 250 each)	2.75	3.25
12x1 1/2 ins. (cartons 100 each)	1.75	2.00

The original label marker. 1 doz. 7-in. pencils per box, \$1.25.

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

"We ship the same day."
YOHO & HOOKER
Youngstown 2, O.

WOOD LABELS

Finest grade Smooth White Pine.

	Plain Painted	Evermark
4x5 ins. (1000 per carton)	\$3.00	\$3.55
5x5 ins. (1000 per carton)	3.20	3.80
6x5 ins. (1000 per carton)	3.50	4.30
8x5 ins. (500 per carton)	5.15	6.35
10x5 ins. (500 per carton)	6.15	7.45
12x5 ins. (500 per carton)	7.15	8.75

GARDEN LABELS

8x 1/2 ins. (250 per carton)	7.50
10x 1/2 ins. (250 per carton)	8.50
12x1 1/2 ins. (100 per carton)	14.50

TREE LABELS

3 1/2 x 5/8 ins., copper-wired	3.55
3 1/2 x 5/8 ins., copper-wired, per box of 100	\$1.75

CELLULOSE LABELS

3x 1/2 ins., copper-wired, per box of 100	\$1.75
Each, 10¢ doz. \$1.00 gross	\$11.00

AMERICAN FLORIST SUPPLY CO.

1335 W. Randolph St. Chicago 7, Ill.

ORCHID SUPPLIES

HAWAIIAN TREE FERN FIBER, coarse unscreened, for potting Vandas, Phalaenopsis and seedlings.
Lb. 50¢; 10 lbs. \$4.50; 25 lbs. \$10.00.

ORCHID CORDAGE TUBES, no cap necessary, just tape. Doz., 45¢; gross, \$4.50.

ORIGINAL BUBBLE VASE LAPEL PINS, crystal clear glass. Doz., \$1.25; gross, \$13.50. Priced F.O.B. Houston.

WRIGHTWOOD FLORAL CO., INC.
2407 N. Main St. Houston 9, Tex.

PEAT MOSS

VAZACO BRAND
PEAT MOSS

Finest horticultural German peat moss. Packed in 7 1/2 cubic foot bales, 8 slats, 4 wires, brand new burlap, makes VAZACO peat moss your best buy. Ask now for prices.

VAN ZANTEN & CO.

316 East Chelton Ave.
Philadelphia 44, Pa.
Phone Victor 8-1405-6

EXTRA! Also ask for 1956 prices on Holland bulbs. We guarantee highest quality and lowest price.

Philadelphia importer specializing in good quality, 7 1/2 cu. ft. bales, offers lowest possible prices. Do not be disappointed this year; get price and delivery by contacting Garden Friend Peat Moss, 330 N. 3rd St., Philadelphia 6, Pa. Phone Market 7-1642.

HOLLAND PEAT MOSS

"BRODLEAF" quality. Just arrived. Standard burlapped bales, \$3.65 each; 10, \$34.25.

Priced F.O.B. Houston.
WRIGHTWOOD FLORAL CO., INC.
2407 N. Main St. Houston 9, Tex.

If you don't find it listed here
Try a Want ad in the next issue
of the American Nurseryman.

PLANT TUBS

UTILITY PLANT TUBS

Made from New England White Pine

F.O.B. New Hampshire
Per 100
Green White
Green White

Size 7 x 7 ins. \$7.50 \$8.00 \$8.50 \$9.00
8 x 5 ins. 72.50 80.00 80.00 87.50
8 1/2 x 6 1/2 ins. 75.00 82.50 82.50 90.00

8 x 8 ins. 80.00 87.50 87.50 95.00
9 x 6 ins. 77.50 85.00 85.00 92.50
9 x 9 ins. 85.00 92.50 95.00 102.50

10 1/2 x 6 1/2 ins. 85.00 92.50 95.00 102.50
10 x 9 ins. 92.50 100.00 107.50 115.00
11 x 7 ins. 85.00 92.50 100.00 107.50

12 x 7 ins. 92.50 100.00 107.50 115.00
12 x 9 ins. 110.00 117.50 130.00 137.50
12 x 11 ins. 145.00 162.50 165.00 172.50

14 x 8 ins. 150.00 167.50 170.00 177.50
14 x 13 ins. 175.00 182.50 195.00 202.50

ALEC HENDERSON, INC.
1305 W. Randolph St. Chicago 7, Ill.
Phone: Monroe 6-3082

Sell Stock Quickly and Easily with
American Nurseryman Classified Ads.

RAFFIA

FORGET-ME-NOT RAFFIA
Eastcoast Madagascar XXX natural.
Westcoast Madagascar AAA natural.

Colored Raffia (20 colors).
Highest quality. Lowest prices.
Write for quote.

THE JOSEPH M. STERN CO.
1968 East 66th St. Cleveland 3, O.

SPHAGNUM MOSS

Fresh, clean sphagnum, large standard burlap bales, \$1.40 each. Write for prices on wire bound, burlap bales, in truck or carlots. Pure Sphagnum Moss Co., City Point, Wis.

Long-fibered sphagnum moss, also ground moss. Price us on truckloads delivered.
Warrens Moss Co., Warrens, Wis.

Small Ads Do Great Things in the
American Nurseryman Classified Section.

STAKES

BAMBOO CANE STAKES

Dyed green, pencil thickness.

Packed 2000 per bale.

	Per 1000	Per bale
1 1/2 ft.	\$3.50	\$6.00
2 ft.	4.50	8.00
2 1/2 ft.	5.50	10.00
3 ft.	7.00	13.00
3 1/2 ft.	8.50	16.00
4 ft.	9.50	18.00
5 ft.	12.50	24.00

6 ft., per bale of 500, \$10.00.

SPLIT BAMBOO, DYED GREEN
Per 1000 Per bale (5000)

12 ins.	\$2.50	\$10.00
14 ins.	3.50	15.00
16 ins.	4.50	20.00
24 ins.	5.50	25.00

F.O.B. CHICAGO
Quantity discounts, 10 bales up, less 5 per cent; 25 bales up, less 10 per cent.

ALEC HENDERSON, INC.
1305 W. Randolph St. Chicago 7, Ill.

STAKES—Continued

CYPRESS PLANT STAKES

50 Pieces to Bundle		
1x1-in.—3 ft., pointed	.....	\$3.00 per bundle
1x1-in.—4 ft., pointed	.....	3.50 per bundle
1x1-in.—5 ft., pointed	.....	4.50 per bundle
1x1-in.—6 ft., pointed	.....	5.50 per bundle
1x1-in.—7 ft., pointed	.....	7.00 per bundle

These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!

YOHIO & HOOKER
Youngstown, O.

HEAVY BAMBOO STAKES

Per 100	1/2 to 3/4-in.	3/4 to 1-in.	1 to 1-1/2-in.
4 ft.	\$2.88	\$3.44	\$4.24
5 ft.	2.60	4.30	5.30
6 ft.	4.32	5.16	6.36
7 ft.	5.04	6.02	7.42
8 ft.	5.76	6.88	8.48

2000 up, less 5%; 5000 up, less 10%.

A. C. PATTERSON, Centertown, Ky.

CALIFORNIA REDWOOD STAKES

No. 1 grade, dyed green and pointed.		
(F.O.B. California) Per 100		Per 1000
1 1/2 x 1 1/2 x 2 ft.	\$2.15	\$1.95 per 100
1 1/2 x 1 1/2 x 3 ft.	2.50	2.35 per 100
1 1/2 x 1 1/2 x 4 ft.	3.00	2.85 per 100

Free catalog of other REDWOOD products.

FERN HAWAII CO., INC.

P. O. Box 216 Wilmington, Calif.

STAKES, GALVANIZED HARD STEEL

FOR GREENHOUSES AND NURSERIES.

BENCH WIRE, GALVANIZED.

STAKE FASTENERS.

Prices and samples sent on request.

SCHUPP SUPPLY CO., WILMETTE, ILL.

Quick — Convenient — Cheap!

Selling through the Classified Ads

of the American Nurseryman.

Mark it PAT. PEND.
PLANT MARKERS
*High Quality
Low Price
Permanent
Garden Markers*



MARKETS (above) combine all the essentials of good plant identification.

- Molded of durable, weather-proof plastic.
- Full 2 square inches of horizontal writing surface set at easy-to-read angle. Always remains clean. Height—5 inches.
- Grey-green color.
- Pencil writing lasts for years, easily erased for re-use.
- Anchor prevents turning and frost heaving.

List Prices — 25 for \$1.25
100 for \$4.50

PERMARKER

PERMARKERS (right) are durable plastic labels, 2 1/2 x 1 1/2 inches, attached firmly to sturdy 14-g non-corrosive steel supports. Easily removed for writing and other uses. Labels held at readable angle.

Always stays clean. Anchor prevents turning, and frost heaving.

Pencil writing lasts for years, but quickly erased for re-use.


Colors, harmonizing grey-green or conspicuous orange.

List Prices—10 for \$1.40 25 for \$3.25
100 for \$12.25

Write today for discounts and free samples.

Permark Co., Inc. Room 1277, 1 East 57th Street,
New York 22, New York

**RARE and UNUSUAL
BULBS**
FREE list on request
GROWERS EXCHANGE, Inc.
FARMINGTON 8, MICHIGAN



COVER ILLUSTRATION

Cercidiphyllum Japonicum Sinense

Cercidiphyllum japonicum, the katsura tree of Japan, is far from being so well-known and widely used as its splendid characteristics merit. Seldom seen outside arboreta, botanical plantings and parks, this excellent tree offers much to justify far greater use. The species grows to 30 to 50 feet, perhaps more where conditions are good, and usually divides at the base to develop a dense, broadly pyramidal head of slender, upright branches which later tend to spread. Hardy from zone 3 southward, this fine Asiatic ornamental tree is not particular as to soil and



Cercidiphyllum Japonicum Sinense

does well under ordinary conditions in this range.

The geographical variety, C. japonicum sinense, as shown by the cover illustration, matures to a quite different appearing plant than the species type; the form shown usually has a single trunk, retains a more pyramidal contour and seems to attain greater size as it approaches maturity.

The foliage of the katsura tree is indeed handsome, being finely textured, quite round, evenly toothed, dark blue-green above and glaucous beneath; in variety sinense, the leaves are similar, but have slightly hairy veins beneath. When unfolding, the leaves of both C. japonicum and variety sinense are purplish and turn to scarlet-tinged bright yellow in the autumn.

It is difficult to understand why this beautiful tree, which was introduced almost 100 years ago (the va-

BOOKS
for Nurserymen

Better Fruits and Flowers

For northeast and midwest. New, greatly enlarged edition. Illustrates in full color 430 items, ornamentals and fruits, popular in these areas. 96 pages in full color, 8 1/2 x 11 ins. in size, with substantial cover. **\$4.00 each.**

Dependable Plantings

Northwest Plate Book. Developed for severe cold climate areas. 179 subjects in full color. 32 pages, 9 x 12 ins., with durable cover. **\$1.50 each.**

Flowers and Fruits

For the southwest. Illustrated in full color—320 items—64 pages in color with heavy durable cover. 8 1/2 x 11 ins. in size. **\$3.00 each.**

Standard Nursery Catalog

48 pages and cover. Nicely illustrated. **40c each.**

New Evergreen Folder

25 popular items of narrow-leaved evergreens—in full color. **15c each.**

New Shrub Folder

31 popular flowering shrubs in full color. **25c each.**

Correct Planting Methods

A pocket-size, 48-page booklet. Very complete but concise information, well illustrated. Helpful in preventing claims for dead stock that cost nurserymen money. Sample, **10c.** Write for discounts on quantities.

Write for Quantity Discounts.

Cash with order, please.

A. B. MORSE CO.
ST. JOSEPH, MICH.

New WhiteShowers
Misting Nozzle

The finest, simplest and most efficient nozzle for propagation and humidity control. Requires no tools, sweat fittings, solder, etc., or work of plumber or expert to install. Made of stainless steel.

Price only **\$3.00**

Sample with hose-testing cap \$3.75 postpaid

WHITESHOWERS, Inc.

17514 Woodward Ave.
DETROIT 3, MICH.

"New Era" Shredder

**Does More
Costs Less!**

**Write
for Details**

TORMEY'S
Phone: AT. 7-0101

P. O. Box 428
TEMPLE CITY,
CALIFORNIA



riety sinense in 1907) has not been much more generally used for the many purposes its fine qualities recommend.

The cover illustration was made from a photograph taken by Gavaughan & Dobson and pictures a specimen at Rochester, N. Y. J. G.

RICHMOND MERGER

Diggs & Beadles Seed Co., and Beck's Lawn & Garden Supply, Inc., Richmond, Va., are merging.

Arthur C. Beck, Jr., president of Beck's Lawn & Garden Supply, and Mrs. Ray J. Roper, president of Diggs & Beadles, said that the merger was made to serve the Richmond area in its growing needs for garden supplies.

Diggs & Beadles is one of the oldest seed houses in Virginia, having been founded in 1902. Beck's Lawn & Garden Supply is the newest garden supply business in the Richmond area. Diggs & Beadles Seed Co., Inc., will be the wholesale distributive business.

Mr. Beck will be president of Diggs & Beadles, succeeding Mrs. Roper, who will continue as a member of the board of directors. Norman H. Bruce, who has been vice-president of Diggs & Beadles since 1945, will be elevated to the office of senior vice-president.

Diggs & Beadles will now operate three retail stores in Richmond, in the downtown area at 414 East Marshall street; in the Westhampton area at 5712 Grove avenue and in the West Broad street area at 6300 West Broad street. The last-named retail store has been operated as the Lawn & Garden Mart by the Beck Corp. since September of this year.

Before entering the garden supply business in July of last year, Mr. Beck was a partner of Lindsey & Co., advertising agency. He has been president of the Richmond Junior Chamber of Commerce, vice-president of the Virginia Junior Chamber of Commerce and vice-president of the Richmond First Club.

Mr. Bruce has been with Diggs & Beadles for 35 years. He is in charge of all seed testing and buying.

JOSEPH E. ANNON, Santa Fe, N. M., is opening a new garden supply store.

WILLARD RUSSELL, formerly city park superintendent, Colorado Springs, Colo., has opened a landscape architects' business at his home, 3909 Meadow lane. Mr. Russell is a graduate in forestry from the State College of New York, Albany, with a B.S. degree in landscape engineering.

SIGN LANGUAGE

Facts, ideas and sales-promotion hints gathered firsthand from nurserymen everywhere

HOW YOU CAN CAPTURE THE "IMPULSE BUYER"

You, like most other businessmen, have your own "regular trade"—the folks who comprise the backbone of your business. They come to your place because they *know* what you sell . . . they *need* what you sell . . . they are sure of the quality, dollar value and service you provide . . . and they are doing business with YOU!

But what about all those potential customers who pass your place every day without stopping? Are there actually people in your community who can say . . . "I've passed So-and-So's place a thousand times, but I've never stopped."?

These are the folks you want to meet . . . right in your shop! But it's vitally important for you to TELL THEM WHAT YOU SELL! That's the first step toward converting them into "regular customers."

You know about "impulse buying." It's that urge that makes a potential customer stop and look and BUY. When folks see a sign that lists plants and shrubs and trees and gardening equipment they need, they often stop and have a look around!

Capture this impulse-buying public. TELL 'EM WHAT YOU SELL! Sales Booster Signs can keep your name before these potential new customers . . . and because these signs have interchangeable panels, you can list appealing new items seasonally, monthly, weekly or daily as you have them in stock!

Simply tell what you sell *when* you sell it . . . and you'll sell more! Write today for your free copy of "How to Sell with Signs."

YOU will INCREASE your SALES with...

SALES BOOSTER SIGNS

Write for complete information

GROWERS SIGN SERVICE

Department AN-1, Tallmadge, Ohio

Actionized...for speedier more efficient
SOIL SHREDDING!

ONLY LINDIG shredders pass all soil through exclusive patented shredding blades...guaranteed perfect shredding of all material...soil, compost, peat, sphagnum moss, etc. Screening Attachment removes rocks and other unwanted particles. From \$95.00.

⬇ POSITIVE SHREDDING BLADES!

LINDIG MFG. CO., INC.

1875 W. County Road C—St. Paul 13, Minn.

BEGINNING IN THE NURSERY BUSINESS, by J. J. Pinney.
Complete series of articles. 50c. American Nurseryman, Chicago 4, Ill.



WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements.

Display: \$4.00 per inch, each insertion.

Lines: 35¢ line; minimum order **\$3.50**.

HELP WANTED

LANDSCAPE SALESMAN

Capable of meeting public, drawing plans, giving estimates and following jobs through to completion. Car essential. Must be experienced. Commission and bonus.

GARDEN CENTER SALESMAN

To act as assistant manager of large new garden center. Must know plant material and allied lines and have good sales appeal and personality.

LANDSCAPE CREW FOREMAN

Experienced man capable of handling men and doing high-grade work in landscape plantings. Must be able to follow blueprints and know plant material.

All above men must be between the ages of 25 and 40 years and experienced. Must be willing to work long hours during busy spring and fall planting season and be aggressive. Top salary, permanent work, paid vacation and bonus. When replying, state age, marital and military status, education, health, references, etc. Also send recent photo.

HALLA NURSERY

4917 Eden Ave. Minneapolis 24, Minn.

HELP WANTED

Wonderful Opportunity For Experienced Nurserymen

If you have experience, want to get ahead, this is your opportunity.

We offer you a permanent, profitable position with world's largest producers of container-grown ornamentals. Our fast growth means fast advancement for you. Pleasant working conditions, security, many extra benefits. Located in beautiful citrus area, 20 miles from Los Angeles. Starting salary \$325 per month. Send your qualifications to:

MONROVIA NURSERY CO.

P. O. Box Q
Azusa, Calif.

HELP WANTED

Leading mail-order nursery doing nationwide retail and wholesale business has opening for man thoroughly experienced in growing and handling ornamental woody material. This man must be an aggressive person, genuinely interested in associating himself only with a first-rate company which will give him every opportunity to advance as he is able to prove himself. Reply to Box 232, care of American Nurseryman. All replies strictly confidential.

HELP WANTED

Landscape Nursery Salesman

Leading landscape nursery and garden center in Rapid City, S. D., the gateway to the Black Hills, offers steady employment to an experienced landscape salesman. Must be progressive and capable of drawing plans, selling and supervising landscape jobs. Applicant must furnish references, give age and qualifications for the job. Enclose picture with reply. Your inquiry will be kept strictly confidential.

SUNSHINE GARDENS

Box 143 Rapid City, S. D.

HELP WANTED

Salesman to call on nurserymen, florists, seedsmen and landscape gardeners east of the Mississippi, selling complete line of nursery stock for large wholesale nursery at liberal commission. For full details, write Box 268, care of American Nurseryman.

HELP WANTED

PROPAGATOR

Large wholesale nursery near Memphis, Tenn., needs experienced propagator to take complete charge of propagation of coniferous and broad-leaved evergreens. Must be capable of handling help and getting results. Good facilities and nice home on premises available. Give references.

CARTWRIGHT NURSERIES

Collierville, Tenn.

HELP WANTED

Young, personable, energetic man to take over as assistant manager of a well-established midwestern garden shop. Previous experience will help, but more important is the ability to show initiative and aggressiveness. Salary and commission.

If you are interested in a future with unlimited opportunity, reply stating age, training, experience and references. Enclose photograph.

THE SECOR LANDSCAPE CO.

3340 Secor Rd. Toledo 6, O.

HELP WANTED

Young man, energetic and with plant-selling knowledge, to help expand a small prosperous nursery on a partnership basis. Rich bottom land; also plenty of water available for irrigation. Six acres under irrigation now. Good chance for full ownership in a few years, as owner wishes to retire. Write details about selling, also propagating experience if any. Reply Box 232, Altavista, Va.

HELP WANTED

LANDSCAPE FOREMAN

Landscape contractors situated on Chicago's south side have an opening for a landscape foreman. Must be experienced in general landscape work and handling of men, and must be able to identify planting material. Must be ready to start work by April 1. Excellent advancement opportunities for right man. Address replies to:

NELSON BROTHERS

Landscape Contractors

8401 S. Jeffrey Ave.

Chicago 17, Ill.

SITUATION WANTED

Nurseryman, age 32, married, with M.S. in horticulture, desires position with nursery or garden center. Experienced in nursery and garden center management, mail-order, sales and research. Write box 266, care of American Nurseryman.

HELP WANTED

Experienced, middle-aged landscape gardener needed for small nursery in Pennsylvania. Good working conditions. Position open April 1 to November 15. Write stating experience and salary expected. Address Box 249, care of the American Nurseryman.

HELP WANTED

Important Dutch firm, growing and exporting a better variety of general nursery stock, has vacancies in many parts of the country for selling agents, working on commission. Write Box 263, care of American Nurseryman.

FOR SALE

100-gal. Hardie wooden tank power sprayer, in good condition. Price \$299.

BROWN & SON NURSERY

18240 Detroit Ave.

Lakewood 7, O.

HELP WANTED

SALESMAN

Salesman now calling on nurserymen, garden centers, landscape men, etc., in Pennsylvania, Maryland, Washington, D. C. and Virginia to sell azaleas wholesale as a side line. We grow over 100 varieties of Kurumes, Glenn Dales, Glabes and others. Highest-quality field-grown stock, all sizes. Write Box 270, care of American Nurseryman.

HELP WANTED

FOREMAN

For general nursery work. Honest and able to sell, handle money, dig and fill orders. Ability in handling men for planting, pruning and general nursery work is important. Steady year-round job. Located on Long Island. Furnish references. Inquire Box 254, care of American Nurseryman.

FOR SALE

One of the oldest and largest nurseries on the stacked plains, 1 mile south of Olathe, N. Mo., on Highway 70. Good buildings including 2 irrigation plants; 2 acres in general stock. Will sell all with building sites or retail part only. \$10,000 to \$50,000 could handle.

KERSHNER'S NEW MEXICO NURSERIES

Rt. 3, Clovis, N. M.

FOR SALE

BY OWNER

20-year-old established retail, wholesale and landscape nursery in Roanoke, Va. Located on main highway within two miles of a rapidly growing industrial city of 100,000. Consists of 35 acres of nursery stock with excellent soil. Nursery stock is mostly broad-leaved evergreens; also shrubs and shade trees. This stock includes both finished and unfinished stock. Office building, three tenant houses, warehouse, barn and other outbuildings. Equipped with three tractors, four trucks, two tree movers and other nursery tools.

LITTLE TREE NURSERY

Route No. 1
Roanoke, Va.

FOR SALE

USED IRRIGATION LINES

7 Skinner lines, 385 ft. each with 4 turn motors; 5 March lines, 288 ft. each with 5 turn motors. All lines have nozzles every 3 ft and post hangers every 15 ft. All lines are graduated sizes of pipe in 18-ft. lengths with jiffy self-aligning couplings. Risers with valves for all lines and enough steel upright posts, 56 ins. long, to cover 11 acres. 800 ft. of 2-in. galvanized conductor pipe with tees and couplings. Priced very reasonably. Will sell all or part.

PERKINS GLADIOLUS
R. F. D. 5 Canton, Ill.
Phone: 2555

FOR SALE

Bean Roto-Mist shade tree sprayer. Like new in appearance and operation. The ideal equipment for Dutch elm spraying. Mounted on heavy-duty, factory-made trailer. Equipped with nozzle lights for night spraying. Can be purchased for \$2175 cash.

THE SHADE TREE SERVICE

963 Park Place
Decatur, Ill.

FOR SALE

Retail nursery business, 20 years old. Gross sales increased \$8000 in 1955. Seed store, loader, two delivery trucks and 20x50-ft. fertilizer house. Located on main highway in Cleveland, Ohio. Approximately one acre on corner lot. Business fully stocked. Will sell business and inventory, with or without land. Good lease. Want to retire. Address all mail to Box 272, care of American Nurseryman.

FOR SALE

Two 1953 Ferguson manure spreaders never used for manure. One McCormick W-30 tractor in average condition and two 8-ft. Brillion Sure-Seed seeders with drill attachments. All located in central Illinois.

NATIONAL LANDSCAPING CO.,
INC.

3952 Addison St. Chicago 18, Ill.

FOR SALE

NURSERY

14 acres, specializing in ornamentals and perennials. Big frontage on main highway, 20 miles from Philadelphia. Magnificent stone home. Excellent buildings, showroom, greenhouse, coldframes. Big stock. Wholesale and retail. Gross \$20,000. In center of famous Delaware valley. Heavily financed to responsible buyer. \$75,000.

E. A. PETTIT
(Open Sunday)
706 Cedar Ave. Pitman, N. J.
Phone: Lather 9-3908

FOR SALE

ADAIR SHRUB AND TREE DIGGER
Never used. Attachable to standard tractors.

EUGENE A. de ST. AUBIN
& BRO., INC.
Addison, Ill.

FOR SALE

Hardie tree sprayer, like new, model XCX, 45-h.p. pump, Waukesha engine and 400-gal. tank. For information write:

K. E. HOUSE
1651 Woodview
Lincoln, Neb.

FOR LEASE

WITH OPTION TO BUY

Injury forcing sale of garden lots. Thousands of young and finished ornamentals in great variety, potting shed and water supply. 145 ft. on main thoroughfare. In heart of town, on top of biggest building boom. Landscape men's opportunity. Little cash needed. Write: Salesyard, 530 Park Ave., Huntington, L. I., N. Y.

FOR SALE

Retail nursery in west central Illinois. Only one in the county. One-man operated. Net over \$7,000 in 1955. Can be doubled by progressive nurseryman. Priced at inventory of \$15,000. Write Box 265, care of American Nurseryman.

FOR SALE

Modern nursery in expanding industrial area of northeastern Ohio. 52 acres with long frontage on U. S. Route 20.

Large modern home with automatic gas heat, packing shed, barn and garage. Irrigation system, with unlimited supply of water available.

Large stock of young evergreens, including named varieties of rhododendrons, hollies and azaleas. Estimated to be more than a million seedlings in beds, mostly taxus and Scotch pine. More than sufficient stock to return total purchase price of \$60,000.

Presently doing very satisfactory wholesale business. Fine location for expansion into retail garden center.

Also for sale: Christmas tree farm. 106 acres with 22,000 trees planted and room for an additional 150,000 trees. Price \$10,000.

Write to Box 261,
care of American Nurseryman.

FOR SALE

Retail nursery and garden center, established 38 years. Consists of 12 acres well stocked; a fine shrub storage, 25 by 60 ft.; 5 acres under new irrigation system, water for same furnished from springs on place; new garden center building, 65-ft. front by 50 ft. deep. Situated next to new marketing plaza on main auto route in outskirts of city of 60,000 population with three other cities and a number of small towns within a 50-mile radius. This business is doing twice the gross of any competitive business in this area. Located in southwestern New York. Owner is 66 years old and wishes to retire. Address replies to Box 271, care of American Nurseryman.

FOR SALE—Used 50-lb. lard pails with handles, not cleaned out, \$65.00 per 1000 F.O.B. Beulah, Mich. Can be shipped by rail only. Pails nested, weight 2 3/4 lbs. each. For freight rates see your local agent. Lids available \$10.00 per 1000. Samples on request. PET-RITZ FOODS, Beulah, Mich.

MICHIGAN CONVENTION

[Continued from page 17]

interstate selling requires no license except for salesmen. If a man holds stock in the organization for which he works he does not need a salesmen's license.

Panel members emphasized that the nurseryman should call on the division of plant industry as soon as possible when help is wanted in making claims on nursery stock. Waiting several weeks or months will lessen or destroy the possibility of determining the extent of the claim.

Inspection requirements, it was explained, are a necessary part of the industry. There are now over 80,000 known insect pests and 6,000 diseases in the United States that cause over \$2,000,000,000 worth of damage each year. These diseases and insects came, for the most part, from foreign countries, and rigid inspection must be maintained to keep them under control. Through years of experience it has been found that living stock transports pests and that cut trees, such as Christmas trees, carry little

HELP WANTED — Salesmen, dealers, agents. Make extra money. Demonstrate and take orders for new, proved, nationally advertised Gro-Green liquid fertilizer and nitrogen nutrients. Full or part time. Samples and demonstrating outfit furnished free. CAMPBELL CO., Rochelle 93, Ill.

FOR SALE—Used 30-lb. tins, \$50.00 per 1000 in carload lots. F.O.B. Beulah, Mich. Car average 6000-tin capacity. Cans cleaned before loading. For freight rates see your local agent. Lids available at \$15.00 per 1000. Samples on request. PET-RITZ FOODS, Beulah, Mich.

For Special Results, Special Profits . . .



AGRICO® *Special-Purpose Fertilizers*

AND AGRINITE®
the Natural 100% Organic

AGRICO FOR LAWNS—specially formulated with right elements, organic and inorganic, for correct lawn feeding. Just right for trees and shrubs, too.

AGRICO FOR GARDENS—A special formula, for flowers of greater beauty, vegetables richer in flavor, higher in minerals and vitamins.

AGRICO FOR BROADLEAF EVERGREENS—for exacting requirements of rhododendron, azaleas, andromeda and other acid-loving plants. Builds soil acidity and feeds plant correctly.

AGRICO ROSE FOOD—a precise combination of organic and inorganic plant foods correctly balanced to bring out the best in your roses.

AGRICO BULB FOOD—formulated to bring out maximum growth and beauty. Provides all needed plant foods, including potash, not found in bone meal.

AGRICO FOR TURF—the 50% organic plant food that golf courses and landscape gardeners use. Ideal for home lawns, too. Good for feeding at any time.

Outstanding results in nursery use—good profits to nurserymen who offer them to their customers—sound reasons why these Agrico products are today's top favorites.

Cash in on America's most complete plant-food line—sell Agrico with nursery stock. Tie in with Agrico advertising—use Agrico ad helps. Order Agrico and Agrinite from nearest A.A.C. office, or write us today.

AGRINITE is the better (over 7% nitrogen) 100% organic plant food. High-grade nitrogenous tankage, not an animal manure or sewage by-product. Clean, odorless, won't burn. For all-season use. All convenient sizes.

AGRICO—the nation's leading fertilizer

made only by

The AMERICAN AGRICULTURAL CHEMICAL Co.

50 Church Street • New York 7, N. Y.

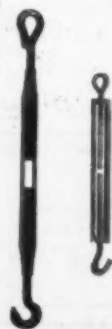
All convenient sizes—Complete directions on every bag.

30 FACTORIES AND SALES OFFICES IN U. S., CANADA, CUBA

or no unwanted material in transportation. Michigan boasts the oldest pest act in the nation, passed in 1875, a law that has done much to slow and control disease and insect spread.

Container-Grown Stock

Arthur J. Lancaster, Coleman Nursery, Inc., Portsmouth, Va., spoke on his experience with container-grown nursery stock. Improvements in the technique continue to be made, and what works for one section of the country may not do well in another. He emphasized the advantages of containers in saving space—his company has grown over 200,000 plants on four acres. In addition, the grower has complete control of soil and the cans are portable and easily handled by grower and customer, lending themselves to attractive and changing display and extending the selling season. The greatest problem is watering, as soil in cans tends to dry out rapidly. A watering schedule must be maintained. However, with proper water and fertilizer applications, salable plants can often be grown in one season. Mr. Lancaster's organization gives a written unconditional guarantee with each plant sold, because there is hardly any transplant shock and the plants are always in a



NEW TURNBUCKLES

AT A FRACTION OF THE REGULAR COST

	Each
No. T-9 3/8x 9-in. Hook and Eye, galvanized . . .	\$0.25
No. T-12 1/2x12-in. Hook and Eye, galvanized . . .	.50
No. T-24 1/2x24-in. Eye and Eye, forged, black . . .	.80

5% discount on orders of 500; 10% discount on orders of 1000. F.O.B. Pittsburgh, Pa.

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WOOD LABELS

For Nurserymen

DAYTON FRUIT TREE LABEL CO.

Ray and Kiser Sts.
DAYTON, O.

**Photographic Plate Books
For Nurserymen**

B. F. CONIGISKY CO.
119 Wyoming St. PEORIA 6, ILL.

PLATE BOOKS For Nurserymen

Printed for us by Morse. Releasing 500 to 1000 books.

Hundreds of true-to-life illustrations in natural colors. Shrubs, vines, hedges, evergreens, perennials, bulbs, roses, small fruits, fruit and ornamental trees. 96 pages, 8x11 inches, complete with index and substantial cover, without imprint. \$3.50 each (discount for quantities).

BROWN BROTHERS CO.
EAST ROCHESTER, N. Y.



ULLMAN CLEAT

Strong, reliable, protects flowers from damage in transit, satisfies customers and insures better prices. The Ullman cleat grips sides of box, holds stems to bottom. Send for prices.

THE ULLMAN CO.
Northampton, Mass.

vigorous growing condition. The nursery procures 5 and 1-gallon cans from local factories as used merchandise and processes them for plants at the rate of 9,000 a day, at a cost of 2½ cents per can. The soil mixture should provide good drainage while retaining as much moisture as possible. Mr. Lancaster then showed slides illustrating the methods used by his firm.

Japanese Plants

John L. Greech, U. S. D. A. plant introduction garden, Glenn Dale, Md., showed color slides of a plant exploration trip through Japan. He remarked that most ornamentals in use in the United States today are introductions from foreign countries. The exploration trip was the first undertaken for the United States to Japan since 1928. In the course of showing the slides, Mr. Greech pointed out several promising varieties of holly, kalmia and other plants he had collected during his stay in Japan. He predicted many new introductions in years to come. An interesting side light was provided for the group when several Japanese gardens were shown. The Japanese use zoysia as their main lawn grass.

A panel discussion to inform the membership of the progress in nursery research was presented, to complete the morning session. Clifford Emlong, Emlong's Nurseries, Inc., Stevensville, acted as moderator, with Harold Hicks; Dr. Donald Watson, horticulture department, and Dr. Larry Boger, department of agricultural economics, Michigan State University, and Roy Marshall as members of the panel. Dr. Watson indicated that facilities are being expanded at the college each year, but lack of personnel and money retard progress. At present, experiments with outdoor lighting, the effects of subirrigation, nursery management, the economics of fertilization, water use and weed killers are being conducted. Nurserymen should contact their local county agents to make their needs known. Harold Hicks pointed out several publications of interest to the group.

Luncheon Speaker

The luncheon speaker, Dr. Harold B. Tukey, head of the horticulture department, Michigan State University, commented on the possible progress in the next 100 years as a result of atomic power. He also pointed out that the field of ornamental horticulture is growing rapidly and as a vocation it will not only produce monetary but spiritual rewards.

Dr. Boger addressed the group to open the afternoon session. Dr. Boger

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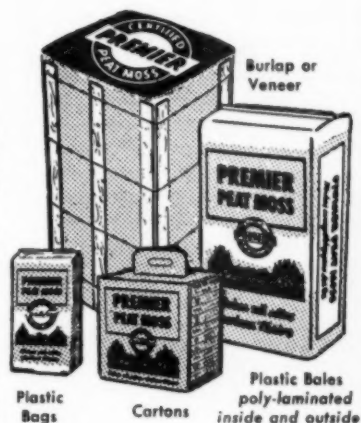
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tied merchandising, the birth rate and the housing boom into an interesting picture of what may be expected in the country's economy in the next few years. The high rate of population increase will create great demand for housing, food production, road building and all types of production and service, including landscaping. Dr. Boger predicted that the increase in population will necessitate more production per worker and, because of this, the labor shortage will continue. Machines will replace muscle, and eventually there will be more leisure time. Between 1965 and 1975 the nation may expect one of the greatest booms because at that time today's large younger generation will be of an age to start families and look for jobs. Michigan ranks seventh in the nation in population increases.

Dr. Boger concluded his remarks by saying that the outlook for the nursery industry is excellent. When the standard of living is high the demand for service becomes greater. For this reason landscape operations should prosper. In addition, landscape investments are among the few things that appreciate in value rather than decline.

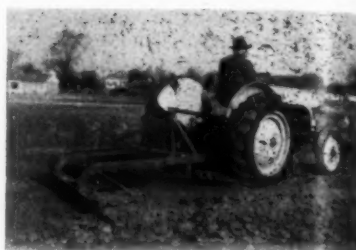
Quality Selling

A film, "How to Sell Quality," was presented to wind up the session. The movie depicted the need for nurserymen to review their selling methods and to meet competition with quality merchandise rather than price cutting. It is necessary to create a need on the part of the client, to present a neat appearance and to produce an atmosphere of quality to sell quality. In addition, when selling, it is wise to break down the price into units the client can understand and to outline the direct benefits of the product. In a competitive market quality selling is the only kind that creates satisfaction and a foundation for a lasting business.

In the evening the annual banquet of the Michigan Association of Nurserymen was held in the Coral room of the Fort Shelby hotel. Awards for outstanding landscaping were presented to representatives of the Northland Shopping Center and the General Motors Technical Center. After the presentations, the group viewed professional entertainment and attended the annual dance.

Fruits in Landscaping

President Poleo introduced Clifford Emlong, Harry Malter, Arthur Watson and James Ilgenfritz to open the final session, January 27. The panel members discussed subjects of



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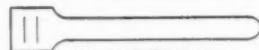
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general interest to nurserymen. The use of small fruits in the landscape was discussed by Mr. Emlong. It was his feeling that the landscape designer generally overlooks this useful type of material. Many fruits can be combined in the landscape plan to improve its appearance and utility. Modern sprays eliminate much of the labor involved in growing fruits, he stated.

There has been a trend toward the greater use of fruits, and nurserymen should try to provide them. Mr. Emlong pointed out the use of strawberries for ground cover, grapes for shade on a trellis or for screening on a fence, blueberries in combination with azalea or rhododendron plantings and the use of gooseberries and currants in hedges.

Mr. Malter presented his ideas on the use of fruit trees. It was his conclusion that many varieties have fine foliage and form along with fruit. Here, as in small fruits, sprays have overcome the maintenance problem. Multiple-variety fruit trees, it was his opinion, should not be placed on the market by the nursery industry. In general, he said, the dwarf types of trees leave much to be hoped for.

Potted Plants

In many localities the nursery business has declined, according to Arthur Watson. The public is accustomed to packaged goods and self-service. Plants in pots are the answer to this problem. Besides being easily handled, they are better merchandise and grow better for the customer. In addition, potting extends the selling season and provides work for crews in the winter months.

It has been Mr. Watson's experience that the pots outlast B&B material and a man can pot four plants in the time required to dig one to ball and wrap with burlap. He has found that in potting evergreens a better root system is developed and the plants are easier to water. Grafts grown in pots have better roots and can be moved later in the season, he declared.

The use of fertilizer was discussed by James Ilgenfritz. He explained that, generally speaking, the more fertilizer used the better the crop, up to a point where economics enters the picture. Of the 5,500,000 farms in the United States, 100,000 produce 50 per cent of the nation's food and use 85 per cent of the fertilizer. Fertilizers are being improved each year, and new methods of application are being developed that will make the use of fertilizer less expensive in the future.

Mr. Ilgenfritz pointed out that

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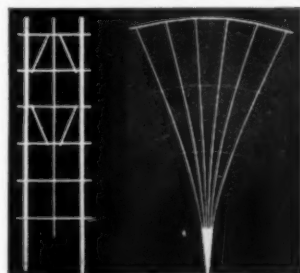
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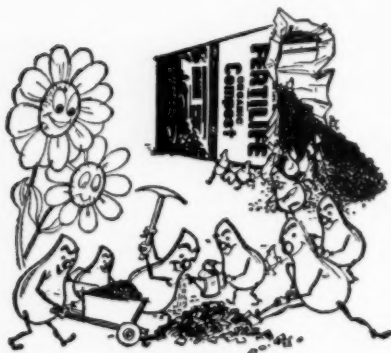
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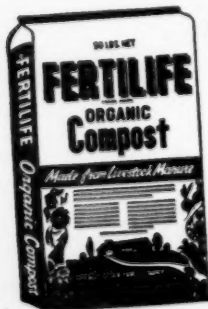
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before any fertilizer can do the plant any good there must be air in the root areas of the plants and that the plants must have water and good drainage. He concluded his remarks by saying that nurserymen in the future will have to adopt irrigation practices to meet competition.

Propagation and Production

Up-to-date observations on propagation and production were presented by Clarence Vanderbrook, research director of the Gardening Council, Newark, N. Y. Mr. Vanderbrook stated that the best labor-saving device he had discovered is the use of common sense in planning operations. In one nursery, a careful study of the operations in growing perennials showed that the actual steps involved could be cut from 26 to seven, thus saving time and money.

Color slides shown to the group gave a complete picture of propagation by mist. Salable plants are produced in about one-half the time with this method; less space and fewer experienced workers are needed; plants require no shade, and mist propagation cuts the number of operations in the growing and therefore reduces costs. It was Mr. Vanderbrook's conclusion that portable irrigation and mist propagation are more profitable than is greenhouse operation. He also mentioned the research in progress on growth regulators. In the future, he said, nurserymen will use a spray to send the plant material into dormancy when the time for moving it has arrived.

A. A. N. Activities

Curtis Porterfield, executive secretary of the American Association of Nurserymen, gave a summary of the activities of the association. He mentioned the package insurance plan, gypsy moth control, false advertising and the fair trade proposals. Arthur Watson pointed out the advantages of belonging to the A. A. N. It was his contention that no man can afford to withhold his support of an organization that protects his rights. Conventions, such as the 34th meeting of the M. A. N., and the information sent out by the Washington office are worth many times the cost of membership each year.

The convention activities ended with a panel discussion of retail nursery operations that make for profit. Members of the panel were Al Goldner, Arthur Lancaster, Joseph Poleo, Harley Wendel and John Stark, moderator. They discussed the importance of location in retail selling, along with advertising, per-

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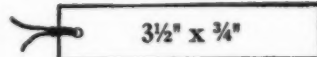


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sonnel contacts, customer service and side lines related to nursery operations. They emphasized the need for good, functional layout and appearance of the nursery. It was stated that impulse buying is a big factor in sales and can be influenced by a good display of plants in season. The approach and knowledge of sales personnel are important in the actual sale and in gaining repeat customers.

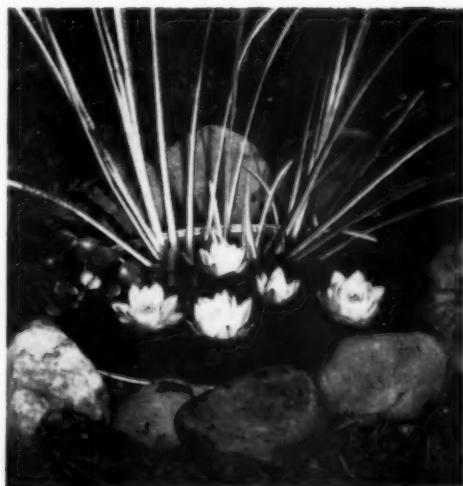
WINTER MULCHES FOR CONTAINER STOCK

Tests to determine effectiveness of several methods of winter protection for container-grown nursery stock were carried on during the winter of 1954-55 by the department of horticulture of Ohio State University, Columbus. The experiment was planned to discover how the same ornamental plants were affected by differing types of protection, in percentage of survival and in growth behavior the following season.

The tests were set up December 10, 1954, and concluded April 4 and 5, 1955. Each of the plant species tested was included in each of five test plots. Plot 1 protection consisted of a wood shavings mulch sifted be-

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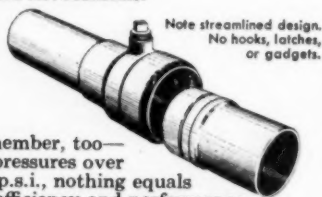
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tween and covering the plant containers. Plot 2 had a mulch of broken corncocks sifted between and over the containers. No protection was afforded the plants in plot 3. Plot 4 was protected by a wall of baled straw, two bales high, built around the south and west sides of the plot, and plot 5 had a similar wall built around all four sides, with a lath snow fence spread over the top, supported by the bales of straw.

In the course of the winter a daily check was kept on soil temperature in all the plots. In the spring, percentage of plant survival was figured, and the amount of top growth and of flowering were noted.

Some comparisons of costs of different types of winter protection were suggested on the basis of the time spent removing the protective material in the spring. The number of man-hours spent in removal of the mulches was four to five times greater than the number needed to take down the straw walls, the former requiring seven to eight man-hours, the latter a little more than one to over two man-hours.

Mulches Most Effective

The two mulches were shown by the experiment to provide the best over-all winter protection. Soil temperature was maintained at higher levels; percentage of survival was nearly 100 per cent for all plants tested; top growth in the succeeding season was better, and amount of flowering was satisfactory. One disadvantage of the corncock mulch was that it attracted rats; however, it provided better protection than the wood shavings mulch.

According to the percentage of survival and the amount of subsequent top growth, at least seven of the plants tested could winter safely under any of the five conditions of protection. These plants are *Kerria japonica*, *Juniperus chinensis* Hetz, *Lonicera japonica chinensis* (normal fertility), *Ligustrum ibota* Vicary, *Juniperus chinensis* Armstrong, *Taxus cuspidata* and *Forsythia intermedia spectabilis*.

The test results showed that *Pyra-cantha coccinea lalandi*, *Syringa vulgaris*, *Liquidambar styraciflua*, *Deutzia gracilis* (normal fertility) and *Abelia grandiflora* survive winter best with a protection of mulch around the containers.

Soil Temperature

Temperature measuring units (thermistors) were stuck into the soil of the containers in each plot, to determine daily temperature fluctuations, and temperature readings were taken at intervals of two to

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Readings showed that temperatures of soil protected by the mulches were little affected by cloudy or sunny weather. Temperatures of the soil without protection and the soil protected by baled straw walls also showed little fluctuation on a cloudy day. The unprotected soil, however, showed considerable fluctuation of temperatures on a typical sunny day.

Survival of plants tested was 100 per cent among the plants protected by mulch, with one exception: *Berberis thunbergii atropurpurea* had 94 per cent survival in the plot protected by the wood shavings mulch.

Percentage of survival was lowest in the unprotected plot. *Pyracantha coccinea lalandi* did not survive, when unprotected, and this plant did not do well either when protected by straw bales, when survival was only 43 per cent. *Lonicera japonica chinensis*, high fertility, had only 29 per cent survival unprotected, and *Cornus florida* did not survive. *Abelia grandiflora* survived 47 per cent unprotected, 53 per cent when partly protected by straw walls and 93 per cent when surrounded by walls. However, such plants as *Keria japonica*, *Juniperus chinensis* Hetz and *Taxus cuspidata* survived 100 per cent although unprotected.

Growth and Flowering

Some pronounced differences were noted in the amounts of top growth in the following season when measurements were made May 14 and again June 9. The average over-all height of *Mahonia aquifolium*, *Liquidambar styraciflua* and *Abelia grandiflora* varied according to method of protection by as much as 5 inches. Unprotected plants showed least top growth, while the mulch-protected plants showed most.

Unusual differences occurred in the flowering pattern of some of the plants. *Ligustrum ibota* Vicary flowered heavily under all conditions of protection; *Lonicera japonica chinensis*, normal fertility, flowered moderately under all conditions; *Deutzia gracilis*, normal fertility, showed a heavy amount of flowering when protected by baled straw walls, moderate flowering when mulch protected and sparse flowering when unprotected.

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At Ohio

**Panel on
Fertilization**

A panel discussion on "Fertilizers and Fertilizer Trends," which was the concluding item on the arborists' day program, January 16, during the Ohio short course held at the Neil House, Columbus, had as moderator Paul E. Tilford, Wooster, O., executive secretary of the National Arborists' Association. The following account of this panel's discussions supplements the summary published in the short course report in the February 15 issue of this magazine:

Hartel Lucks, of the Smith Agricultural Chemical Co., Columbus, talked on "Something Old, Something New" in connection with fertilizers. The modern trend seems to be to accept anything new as a cure-all. Some older products, however, may be better than newer ones, Mr. Lucks said, and often something old plus something new may give good results, as have combinations of some of the new antibiotics with the old standbys such as copper and sulphur. Tremendous change is taking place in the field of fertilizers, said Mr. Lucks, and care should be taken not to discard some old standbys that later may turn out to be useful.

In the field of fertilizer-herbicide mixtures there have been relatively few changes. The 2,4-D mixtures still seem to be the predominant herbicides used.

Fertilizer-insecticide mixtures are becoming more plentiful. To date, the commercial use of fertilizer-pesticide mixtures outstrips research findings about them. The consumer is forcing distribution before all basic facts are known and proper safety measures set up.

Of the new products, water-insoluble nitrogen has created the most discussion. The urea and formaldehyde combinations seem promising, although it is felt that if and when they can be combined with other fertilizer material, greater benefits will be derived. The material is reported to act similarly to organic nitrogen, but this does not mean the use of organics should be discontinued, since organics provide many benefits other than their nitrogen content.

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Using radioactive isotopes of nutrient elements, plant scientists are learning about the role each nutrient has in plant development. Knowledge gained by such investigations could lead to much more efficient fertilization practices and may change many aspects of fertilizer usage in the future.

Punch-Bar Technique

T. W. Parke, of the Parke-Speed Tree Service, Columbus, O., discussed tree fertilization using the punch-bar method. Drawings shown indicated the holes are approximately 18 inches apart and about 18 inches deep.

To minimize damage resulting from grade changes, Mr. Parke suggested placing tile on the original grade and mixing fertilizer with a porous fill material. In answer to a question from the audience, he stated that the amount of fill a tree could tolerate varies considerably; however, trees with a tap root seem to be more tolerant than shallow-rooted trees.

In reply to another question, Mr. Parke suggested 10-6-4 as a good tree fertilizer analysis; the mixture can be applied at the rate of three to five pounds per inch of trunk diameter. Applications can be made at any time of the year, except that late summer or early fall applications should be avoided, to prevent encouragement of succulent growth that might not have time to harden properly before winter.

Air-Gun Fertilizing

E. E. Irish, Charles F. Irish Co., Cleveland, O., explained the Irish Aero-Fertil process. The Aero-Fertil gun consists of a funnel, a reservoir and a barrel tapered to insure a tight fit when inserted into a drilled hole. For operating the gun a portable air compressor having a capacity of approximately 100 cubic feet per minute is recommended. A compressor of less capacity may be used, but slows the operation.

The procedure usually followed is to drill the hole, insert the barrel into the hole and fracture the soil by injecting compressed air into it. By another trigger operation, the desired amount of fertilizer is blown into the fracture. If the soil is dry, water may be introduced by releasing another valve connected to a water supply. In one operation then, the workman can aerate, fertilize and water. Often the aeration or watering may do more good than the fertilizer.

Questions from the audience caused Mr. Irish to remark that the

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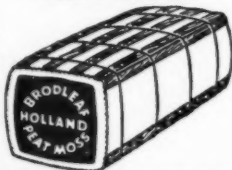
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complete process need not be repeated for each tree. Quite often only aeration is needed, so just air, possibly with a sand and peat mixture, may be blown into the soil. Soils containing toxic gases may be aerated with the gun.

The gun hopper will hold sufficient fertilizer material for four holes. With a little experience, an operator can judge when a desirable amount has been dispersed; however, for exacting work it may be best to place only the desired amount for each hole in the hopper.

Holes for applying fertilizer by the Aero-Fertil process are placed 30 inches apart, staggered in concentric rings about the tree. Fertilizer is often blown laterally as much as 42 inches and is sometimes blown out of the previous hole.

Water-Jet System

S. W. Parmenter, Kent, O., explained his water jet method of tree fertilization. Fertilizer materials are dissolved in a spray tank and, with a pressure of 200 to 300 pounds, the solution is injected into the soil through an approximately 4-foot length of double-thickness 1/4-inch gas pipe that has a tapered tip. Mr. Parmenter stated that the injector makes its own hole and there is no necessity for filling it afterward. He said it was necessary to water thoroughly after injecting the nutrient solution, to prevent surface burning as a result of spillage.

Mr. Parmenter said in answer to a question that the jet is sometimes clogged, but not often, and pressure should not be shut off with the jet underground, as the back pressure is conducive to plugging.

Since the fertilizer is in solution, there is little danger of damage from any amount applied. The formula Mr. Parmenter frequently uses consists of five pounds of urea, three pounds of diammonium phosphate, three pounds of potash and one-half pound of ammonium sulphate to 100 gallons of water. On trees that have not been fertilized before, half a pound of borax and half a pound of magnesium sulphate are added.

General Comment

The final panel speaker, Dr. L. C. Chadwick, briefly discussed advantages of various methods of fertilizer application mentioned. Surface application is satisfactory, but is not recommended for lawn areas. The punch-bar method, although laborious, is satisfactory, but a large number of holes must be made, since fertilizers move but short distances through the soil. The water-jet method

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od is good, and under some conditions the water does more good than the fertilizer; however, in wet soils this method leaves something to be desired. The Aero-Fertil method has the advantage of using either air or water or both as soil conditions require.

Dr. Chadwick was of the opinion that there is no one best fertilizer analysis for tree fertilization; however, he went on to enumerate some things to keep in mind when choosing a fertilizer.

A good fertilizer should not contain less than 20 units, and Dr. Chadwick favors high nitrogen with relatively high phosphorus and a lower amount of potash, such as a 10-6-4, a 12-6-4 or a 12-8-6 analysis. All experiments conducted at Ohio State University on tree fertilization have shown the advantages of additions of phosphorus. Although no great responses have been noted from additions of potash, it was suggested that a small amount be added.

Nutrient content, as well as the price per ton, should be considered when buying fertilizers in the bag. A fertilizer costing \$200 per ton may prove to be cheaper than one costing \$50 per ton.

The problem of the best percentage of organic nitrogen in a fertilizer

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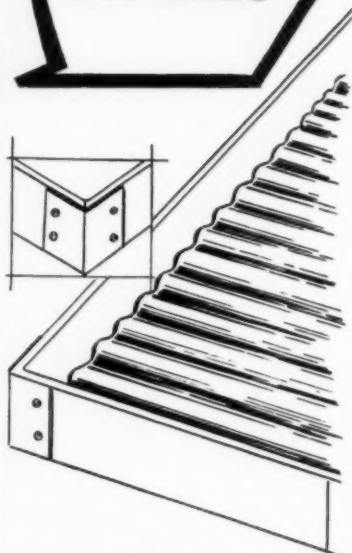
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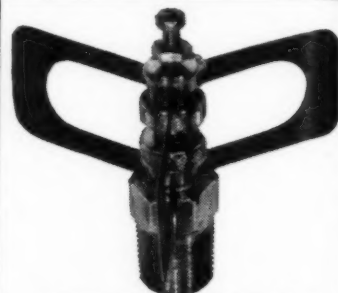
formula has not been solved. Dr. Chadwick suggested that nitrogen content be kept low, as there is no definite advantage from high amounts. Leaching may be significant in the sandy soils of the lake areas, but in most of the clay soils there appears to be little leaching. The cost per pound of nitrogen in fertilizer may vary greatly. For example, a pound of nitrogen from some processed sludges will cost around 50 cents, while the nitrogen derived from ammonium sulphate will cost only about 16 cents. While the price per ton of some of the new formaldehyde-treated nitrogen fertilizers is exceedingly high, the actual price per pound of nitrogen in these fertilizers may not be much higher than the cost per pound of nitrogen in the commoner organic carriers.

In foliar applications, most of the fertilizer enters through the stomates, largely located on the underside of the leaves. Since stomates are open in the morning, this is the best time for foliar applications. Some absorption may occur through the bark of twigs. High-analysis fertilizers are recommended and may be applied alone or in conjunction with fungicides and insecticides. Some precautions are necessary for such combinations. The rate of application will depend on the material used, but the average is usually four to five pounds to 100 gallons of water. It is better to make two 4-pound applications than one 8-pound application. Five or six applications per year have been recommended as adequate. Tests at Ohio State University revealed little difference in materials used, but none of the foliage applications were so satisfactory as soil applications. Dr. Chadwick suggests that foliar applications be used mainly as a supplement to soil applications.

Ted Parke said, in answer to a question, that in the punch-bar method holes should be placed where the feeding roots are located. Sam Parmenter commented that many of the vital feeding roots are located close to the trunk of the tree; otherwise it would be virtually impossible successfully to transplant trees.

Dr. Chadwick confirmed Mr. Parmenter's remarks by recalling some results of tests made at the Ohio State University on several 4-inch elms. It was found that fewer feeding roots were in the drip area of the branches than near the trunk. Ninety per cent of the feeding roots were located within a radius from the trunk in feet equal to the diameter of the trunk in inches.

A question concerning the advi-



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bility of adding iron chelate to the tree fertilizer was answered by Dr. Chadwick, who said there is no basis for adding iron unless evidence shows it is needed. The best time to apply chelated iron is when the tree first shows chlorotic symptoms and applications should be made early in the season.

Dr. Tilford told a questioner that a mist blower had been tried for foliar applications of nutrients and was thought to be successful.

B. L. J.

WESTERN NEW YORK MEET

[Continued from page 20.]

erymen that there be continued research on good shade trees to replace those with roots that may damage sewers and sidewalks and those susceptible to diseases that are difficult or impossible to control. He said there is a definite place for tailor-made trees, and they should be available in small quantities for wholesale and retail use in proper localities.

Recommendations on tree planting should be made to the homeowner only after careful consideration to decide on the type of tree best suited to his requirements. The request usually is for a quick-growing shade tree. Mr. Wright suggested it might be wise to consider the soft maple, which would provide necessary shade with fewer troubles than poplar, willow, Chinese elm or other fast-growing trees.

Mr. Wright feels that educating the public in sensible selection of trees, although a difficult task, can be done through advertising and other well-planned recommendations.

He stated that Rochester was the original center of tailor-made trees and they are still planted there in congested localities. However, the majority of the city's shade trees are full-size trees, such as Norway maple, hard maple and locust. A system of mixed planting on Rochester streets has been found to be far superior to the old system of planting only one type of tree. Because of close cooperation between the parks department and the utility companies, particularly in pruning operations, poorly shaped or one-sided street trees have been avoided.

In concluding his talk, Mr. Wright stated that nurserymen and city park officials have a great responsibility in recommending suitable types of trees for planting on streets and private properties and should give serious thought to the subject.

John Kelly extended the thanks of the nurserymen to Mr. Wright for

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staging a display of nursery stock at the horticulture meeting.

At the afternoon program, E. M. Johnston, Syracuse, an inspirational speaker, talked on salesmanship. The next speaker was Henry Little, director, state bureau of plant industry, Albany, who reported on the current insect and disease problems in the state, emphasizing the spread of the gypsy moth. Mr. Little paid a tribute to Leon Strickland, Lockport, a state inspector who is retiring after 47 years with the department.

Constitution Revision

The constitution and bylaws of the association have been studied for changes by the officers. A motion was made and passed that the proposed constitution be studied by the present executive committee for presentation to the membership for ratification in 1957.

The nominating committee made its report at this time and its slate of officers was elected as previously given. Al Synesael and William Kelly were named directors to the New York State Nurserymen's Association for two years, with Merton L. Congdon, North Collins, and Clarence VanDerbrook as alternates.

A discussion followed in reference to the summer outing; a committee headed by Merton L. Congdon was appointed to investigate the possibility of holding the meeting at Dunkirk.

The death of Carl Mathews, Jackson & Perkins Co., was reported by Charles Perkins. Other losses by the group in the past year were: W. J. Maloney, Maloney Bros., Dansville; George Probst, Elma Nursery, Elma; Lewis Adelsburger, Lowville, and Dr. Kenneth Post, Ithaca.

For his long, faithful service to the association, Richard Holmes was the recipient of a presentation at this session. The concluding event was the showing of a film on salesmanship from the American Association of Nurserymen.

R. M. ARNOLD, Miami, Fla., formerly forming Arnold's Nursery, Jackson, Mich., has started a national mail-order nursery business at Miami.

JACK DOMIN, 41 George Urban boulevard, Cheektowaga 25, Buffalo, N. Y., will start a wholesale nursery on seven acres at Alden, N. Y.

HENRY ALBRECHT, JR., 661 Harrison avenue, Ardsley, Pa., is building a greenhouse and work room on 18 acres which he will plant with nursery stock.

At Ohio

Chemical Weed Control

Experiments in the field of chemical weed control during 1955 were described by two speakers at nurserymen's day, January 18, at the Ohio short course at Columbus. Both speakers, Philip Barker and W. D. Chambers, are members of the department of horticulture and forestry at Ohio State University.

Mr. Chambers discussed three different weed-control problems with which he had been working. His first problem concerned the elimination of vegetation with TCA and Dalapon. Replicated plots containing between 200 and 500 square feet, which were overgrown with such weeds as foxtail, Johnson grass, German millet, quack grass, crab grass, dandelion, Canada thistle, gumweed, alsike clover, pigweed, smartweed and plantain, were treated with the chemicals mentioned. Treatments were applied May 26 and August 19. The vegetation was cut to the ground between the first and second applications.

According to Mr. Chambers, Dalapon at 10 or 20 pounds per acre gave approximately 90 per cent control of broad-leaved weeds and caused browning and retardation of top growth of the grasses. The material was effective for a period of five weeks. TCA at 20 and 35 pounds per acre gave little control of the broad-leaved weeds, but it gave approximately 85 per cent control of grasses. Plantain was not controlled by either Dalapon or TCA.

Mr. Chambers stated that direct application of TCA at 20 pounds per acre caused no injury on *Euonymus fortunei* vegetus, but the lower concentrations of both herbicides caused considerable twisting and defoliation, but not death, of *Lonicera korolkowi* zabeli. Wind drift of the lower concentrations of both herbicides caused a slight browning of *Acer platanoides*, but no injury to *Sophora japonica*, *Philadelphus virginialis* and *Laburnum watereri*.

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FIG. A—Hand-type auger bores hole 28 ins. deep, 1 1/2-in. in standing position.

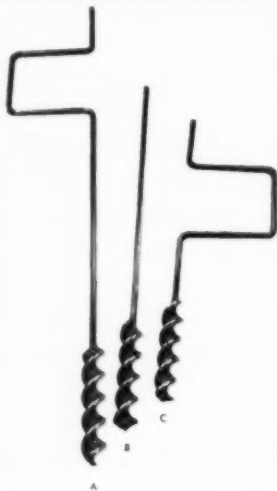
FIG. B—For use with 1/2-in. electric drills. Bores hole 30 ins. deep, 1 1/2-in. diameter. Outstanding for use by landscape men for speedy feeding and planting.

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suppression by chemicals of nursery companion crops. In a field nursery of 7-year *Taxus cuspidata* intermedia, maleic hydrazide plus 2,4-D was applied to the companion crops, which consisted of Kentucky bluegrass, chewings fescue, birds-foot trefoil or alsike clover. The plots were cut to a height of about three inches in late June, and the clover plots were recut to a similar height on July 10. The treatments were applied July 11. Maleic hydrazide was used at the rate of 7.5 and 15 pounds per acre and 2,4-D was used at one-half pound per acre.

Observation led to the conclusion that the rate of growth made by the companion crops was much less in the treated plots than in the untreated plots for three to four weeks. Evaluations of the amount of growth were made five weeks after treatment, and it was found that the chemicals reduced the growth by approximately one-half that in the untreated plots.

Comparative Treatments

In another series of tests in the same taxus nursery, Mr. Chambers treated grass and broad-leaved weed plots with chloro IPC, 2,4-D, a combination of these two chemicals, and maleic hydrazide plus 2,4-D. Chloro IPC, at 7.5 pounds per acre, gave excellent control of grasses for more than five weeks, but only fair control of broad-leaved weeds for about four weeks. The same rate of chloro IPC, plus one pound of 2,4-D, gave excellent control of both grasses and broad-leaved weeds for over five weeks. 2,4-D, at one pound per acre, plus 10 pounds of maleic hydrazide, gave good control of the broad-leaved weeds for about five weeks, but only partial control of grasses.

The third problem on which Mr. Chambers reported was concerned with pre-emergence weed control in a taxus nursery. The tests were made in a field nursery of 5-year *Taxus cuspidata* intermedia to determine the effectiveness of controlling weeds when they are in the germinating seed and seedling stages. The plots received applications of CMU and SES June 16 and August 4. The best weed control was obtained in plots treated with one-half pound of CMU, plus four pounds of SES per acre. Mr. Chambers warned the group that CMU is a strong soil sterilant and should be used with care.

Plant Tolerance

Mr. Barker reported the results of experiments which were designed to study the tolerances of certain nurs-

ery stock to CMU and SES. Potted plants of 2-year-old Norway spruce, Japanese maple and flowering dogwood; 3-year-old *Taxus cuspidata* intermedia; 4-month-old *Forsythia intermedia spectabilis*, and 2-month-old marigolds were treated with one to four applications of either CMU, SES or a combination of the two chemicals. The rates used were one-half pound per acre of CMU and four pounds per acre of SES. The tests were conducted in the greenhouse.

Mr. Barker stated that whenever CMU was used on marigolds, necrosis appeared on the leaf tips after one week, and the plants were dead at the end of three weeks. The marigolds were unharmed when treated with SES alone; however, SES caused epinasty in the flowering dogwood. These plants eventually died. No other significant damage appeared, according to Mr. Barker.

During the question period, Mr. Barker explained that there are two main types of weed control—prevention, before the weeds appear and eradication, after the weeds become established in the area.

One of the most valuable pieces of equipment for a nurseryman is the 3-gallon sprayer, according to Mr. Barker. This sprayer can be used by the individual nurseryman to great advantage in treating small areas, as well as for testing new sprays.

P. A. B.

DISEASE CONTROL OF CHERRY STOCKS

Five years of fungicide tests for control of powdery mildew and leaf spot, the two principal diseases of cherry nursery stocks in western New York, demonstrated that both timing of the initial application and choice of fungicide were critical, it is declared in a report by R. M. Gilmer, in *Plant Disease Reporter*, volume 39, number 10. The work, conducted by staff members of the New York state agricultural experiment station from 1951 to 1955, indicated that under normal western New York conditions, the initial application should be made 10 to 14 days after budbreak, usually about June 10 to 15.

A combination of actidione, two parts per million, and sulphur, two to five pounds to 100 gallons of water, afforded outstanding control of both powdery mildew and leaf spot when used in a 4-application schedule with applications at 14-day intervals. Actidione, two ppm, in the same schedule gave excellent leaf spot control, but control of powdery

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mildew, while comparable to that obtained with copper fungicides, was not highly satisfactory.

Copper fungicides at rates as low as 0.4 pounds actual metallic copper to 100 gallons of water usually gave good control of leaf spot, but poor control of powdery mildew.

None of the other fungicides tested gave acceptable control of both diseases in a 4-application schedule.

CALIFORNIA INSTITUTE

[Continued from page 100]

scape jobs. She deplored the lack of imagination in the utilization of ground covers, which she defined generally as lawn substitutes.

Drawing on her extensive experience she discussed and recommended first, such varieties as Lippia canescens, which grows well anywhere if watered and cut back about three times each year; Thymus serpyllum, which needs little care, stands abuse and grows close to the ground; Fragaria chiloensis hybrid, or ornamental strawberry, which does well nearly everywhere if mowed with a raised mower twice yearly, and ajuga varieties, which must be kept weeded and fertilized.

Suggested as specific varieties well adapted to planting on slopes were Anemopaegma chamberlayni, Plumbago capensis, Star jasmine, prostrate junipers, prostrate Natal plums, Ceanothus thyrsiflorus griseus horizontalis and C. gloriosus, and prostrate rosemary, that will tolerate hot sun and poor soil.

For deep covers in large areas in locations where some height is desired, Mrs. Davis stated that Xylosma senticosa, Melianthus major, Cistus corbariensis and Sollya heterophylla are particularly effective.

Suggested for shade and moisture were bergenias, varieties of billbergia, sweet woodruff, Mentha requienii and Veronica repens. Other less familiar plants for sunny spots and when some bloom is desired were potentillas, Polygonum capitatum, Hypericum calycinum, Achillea tomentosa and Nepeta mussini. Several types of sedums were discussed.

Shrubs and Trees

Discussion of shrubs and trees was begun by John J. Stark, farm adviser, agricultural extension service for the county of Los Angeles, who referred the audience to the booklet on seaside plantings and then with the use of colored slides pointed out recommended material for planting in the immediate coastal strip. He reminded the audience of the

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severe conditions of wind, sandy soil, intense light, fog and the frequent heat waves that seaside plantings must endure. His office had observed that plants with smooth, shiny and spiny foliage, grayish in color, generally tolerated the seashore exposure best.

Shrubs were the chief consideration of the next speaker, Dr. Vernon T. Stoutemyer, of U. C. L. A. In his talk, entitled "Shrubs to Suit the Climate from Coast to Mountains," Dr. Stoutemyer stressed the following possibilities that good shrubs can offer: (1) Control of noise from streets or adjoining properties, (2) screening for privacy, (3) development of many varieties into attractive small trees, (4) interesting espaliers and (5) selection for fragrance and flower.

The trends in southern California plantings are still toward tropicals, palms and Japanese miniatures, he advised. The same mistake of planting too rapid-growing material too close together is still prevalent, said Dr. Stoutemyer.

Suitable Plantings

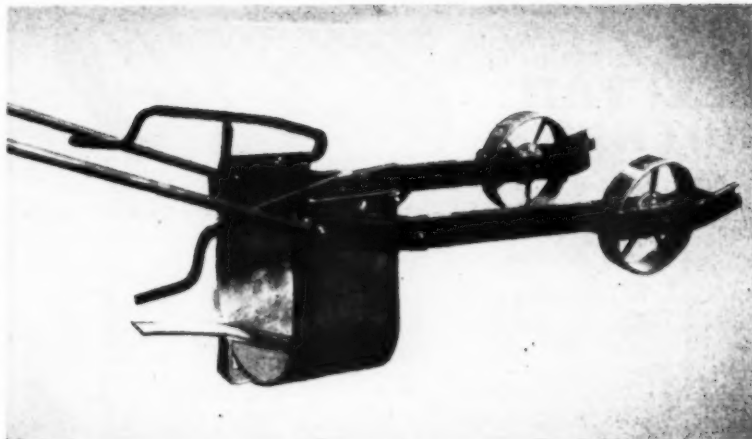
The speaker offered a selection of 12 wide-range, reliable plants that are easy to grow, easy to sell and make a good appearance in containers for the nurserymen. These were *Abelia grandiflora*, *Cocculus laurifolius*, *Leptospermum laevigatum*, *Ligustrum japonicum* or *texanum*, the mahonias, *Nandina domestica*, *Pittosporum tobira*, *pyracantha* varieties, *raphiolepis*, *Rhamnus alaternus* and *Xylosma senticosa*. Good supplementary shrubs were *Cotoneaster lactea* or *parneyi*, *Ilex cornuta* Burford, *Elaeagnus pungens* and the hypericums.

Dr. Mildred E. Mathias, discussing trees for coastal and inland valleys, advised nurserymen to choose the right tree for the location and to consider the customer's needs, the planting variables involved and particularly the room available for growing the tree.

Dr. Mathias listed the following trees, all of which have been observed growing in good condition in all five climatic zones: *Pinus halepensis*, or Aleppo pine; *Thuja orientalis*; *Ginkgo biloba*; *Washingtonia filifera*; *Albizia julibrissin*; *Koeleuteria paniculata*; *Moraine locust*; *Ulmus pumila*, or Siberian elm; *Modesto ash*; *Magnolia grandiflora*; *Olea europaea*, and *Quercus ilex*.

Fruits, Nuts and Grapes

The closing topic of the morning session was the study of fruits, nuts and grapes. C. A. Schroeder, depart-



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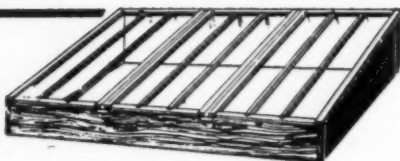
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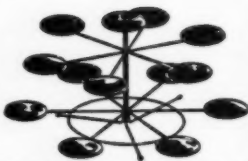
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ment of subtropical horticulture, U. C. L. A., and Paul Moore, department of horticulture, University of California at Riverside, were the speakers. Mr. Schroeder briefly discussed pollenizing requirements, cold tolerance and most suitable rootstocks for the subtropical fruits. Of interest to many growers was his statement that the new kaki rootstock has retarded fruit drop from the Hachiya persimmon, but that it is incompatible with the variety Fuyu. He went through the subtropical fruit list in the plant materials pamphlet, commenting on each variety.

Mr. Moore told of the increasing difficulties of successful deciduous fruit tree growing in southern California, referring to Mr. Kimball's assertion that higher winter temperatures had been encountered in recent years. He pointed out the lack of necessary winter chilling and sufficient summer heat to insure steady crops. He commended the efforts of such hybridizers as C. O. Smith; Dr. Walter E. Lammerts, Delcanso Distributors, Livermore; Herbert C. Swim, formerly of Armstrong Nurseries, Inc., Ontario; David L. Armstrong, Armstrong Nurseries, Inc., and Dr. R. E. Leslie, of the University of California at Riverside, in the development of fruit varieties for local growing.

Panel Discussions

After lunch, the registrants were invited to inspect exhibits of trees, shrubs and ground covers set up in classrooms of Haines hall. The nurserymen gathered in three groups representing those interested in either the coast and coastal valley, intermediate valley or interior and desert climatic zones. Three panel groups then met with the zone groups in hourly sessions, answering questions and discussing in greater detail the morning lectures.

Chairmen of the three zone groups were farm advisers from county agricultural extension services: Jack L. Bivens, Santa Barbara county; Daniel H. Close, San Diego county, and Chester L. Hemstreet, San Bernardino county.

Members of the panels were: "Grasses and Ground Covers"—Victor Younger; Mildred Davis; Waldo Small, Small's Seed & Nursery Co., Riverside; James C. Perry, Perry's Plants, Inc., Montebello, and George H. Spaulding, superintendent, Los Angeles State and County Arboretum, Arcadia; "Shrubs and Trees"—Dr. V. T. Stoutemyer; Dr. Mildred E. Mathias; John J. Stark; Philip E. Chandler; James E. Har-

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KALAMAZOO VALLEY MEET

[Continued from page 14]

individual nurseryman. His nursery
prefers not to make a plan for the
person who expects to buy elsewhere.
Generally speaking, the price of the
landscape plan will be included in
the over-all package deal offered to
the prospective landscape client.
Small landscape jobs up to \$150
should be sketched or laid out at the
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he suggested.

Replying to a question from the
floor, Mr. Hunziker said that he has
found through records kept for a
number of years that actual plant
losses on his landscape jobs are sur-
prisingly low. As far as plant replace-
ments are concerned, he believes that
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the customer and that nurserymen
should be more lenient in their atti-

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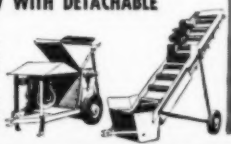


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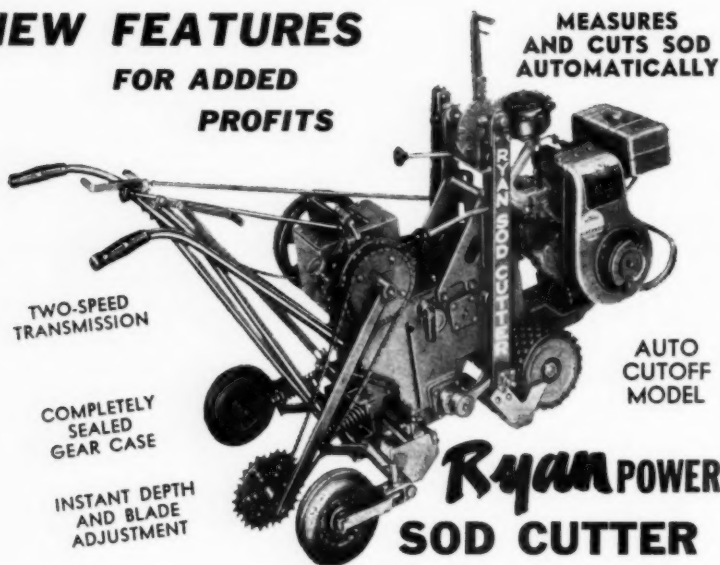
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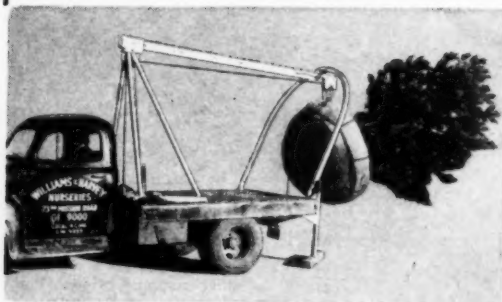
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tude toward replacing plants for the customer. He figured his losses did not amount to more than 3 per cent a year. However, in figuring the cost of the plant to the customer, his firm charges from 12 to 15 per cent extra to cover possible replacement.

Arthur Watson commented on his policy of plant guarantees. He will replace a plant for 50 per cent of its original cost. However, he does deviate from that rule if the customer shows proof of loss. In that case Mr. Watson will replace the plant free. The policy has paid off, he feels, because the customer will usually buy another plant or two before leaving the salesyard.

Nichols Arboretum

Harlow C. Whittemore, chairman, college of architecture and design, department of landscape architecture, University of Michigan, Ann Arbor, was the next speaker. His subject was "A Visit to the Nichols Arboretum at Ann Arbor." Developed from a tract of land donated by Mr. and Mrs. Walter Nichols, graduates of the university in the 1890's, the arboretum was first designed and planted in 1907. Credit for most of its early development goes to Aubrey Tealdi, landscape architect, now a resident of Italy. With additional donations of land, the area today includes some 200 acres of rolling countryside along the Huron river, east of the campus.

The topography is varied, the highest point being 185 feet above the river. A variety of soils ranging from heavy clay and muck to light loam and sand is found on the property. Actually, Mr. Whittemore stated, a total of 26 different types of soils has been classified.

The plan for the arboretum includes the development of the natural beauty of the tract as a public park; a collection of woody plants native to Michigan, and a collection of trees, evergreens, shrubs and herbaceous plants that are used in landscape design. An interesting section of the area is known as Heathdale, a wooded valley where rhododendrons, azaleas, American holly and other broad-leaved evergreens are being tested.

A large garden containing over 360 varieties of peonies is included in the arboretum, the gift of Dr. W. J. Upjohn, of Kalamazoo. Other interesting plants being grown include spreading English yew, *Taxus baccata repandens*; bald cypress, *Taxodium distichum*; Lobb cryptomeria, *C. japonica* Lobb; umbrella pine, *Sciadopitys verticillata*; Nikko fir, *Abies homolepis*; Carolina hemlock,

Tsuga caroliniana; lacebark pine, Pinus bungeana; northern bayberry, Myrica carolinensis, and the sweetbay magnolia, M. virginiana.

Mr. Whittemore brought a number of labeled leaf and branch specimens for examination by the members in the audience. In addition, a number of colored slides were shown depicting the development of the arboretum and showing many interesting plants being grown there.

New City Park

Highlight of the evening banquet was an address given by the Hon. Glenn S. Allen, Jr., mayor of Kalamazoo, who was introduced by George Farley, secretary of the Michigan Association of Nurserymen. The mayor welcomed the visitors from other sections of Michigan and told of the efforts to make Kalamazoo a more beautiful city. He cited the example of the Upjohn Co., which won an award of the American Association of Nurserymen for the magnificent job done in landscaping its grounds.

Mayor Allen pointed out additional attempts to beautify Kalamazoo. In the coming spring, a new 250-acre area to be called Spring Valley park, will be developed at the northern limits of the city. The new park will be completely landscaped, a stream will be dammed to form two separate pools (reflection pools in summer, skating rinks in winter) and a 9-hole golf course will be included, as well as a large picnic and recreation area. The mayor concluded his remarks by complimenting the nurserymen on the fine work they do to provide beauty for everyone.

Joseph Cox, extension specialist, school of landscape architecture and urban planning, Michigan State University, East Lansing, spoke on "Landscape Planting in Michigan." In his introductory remarks he mentioned that his duties take him to all sections of Michigan, where he is asked to talk on the subject of landscaping. In his travels he meets with all types of planting—good and bad.

Landscape Trends

He pointed out that the gardening public needs to know more about plants, what shade trees are best suited for their properties, what evergreens, shrubs and flowers will grow best for them. The demand for this kind of information is tremendous, he said.

Another factor changing the gardening habits of the American people is travel. More and more people are traveling to Florida, California and other areas where plant materials

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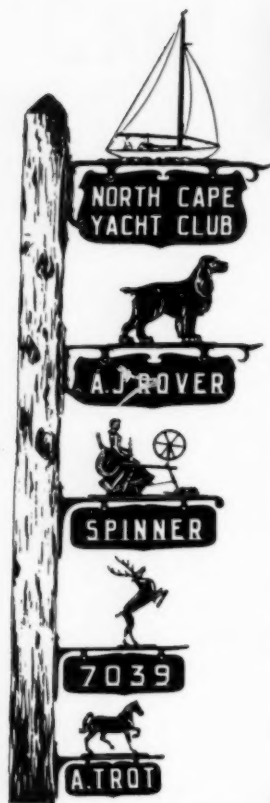


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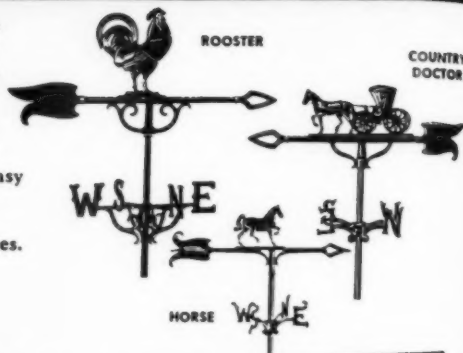
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differ from those grown at home. These people come back home enthusiastic about introducing some unusual plant in their landscaping. Mr. Cox seemed to feel that Michigan nurserymen should continue to bring in and introduce more plant materials for potential customers. It has been shown, he declared, that many broad-leaved evergreens are doing well in Michigan's variable climate and soil conditions, and more plants of that type will be in demand in the future. Illustrating his talk, Mr. Cox showed a colorful series of slides depicting gardens and landscaped homes in Michigan.

Concluding the evening's program, President Hitchcock complimented members of the committee who assisted in preparing the conference. These included William Deary, Deary's Landscape Service, Galesburg, who planned and arranged the plant display; Chris Patterer, Urbandale Flower Shop & Nursery, Battle Creek, who furnished the azaleas, daffodils and tulips; Harley Wedel, Wedel's Nursery & Garden Center, Kalamazoo, who had charge of commercial exhibits; Hubert Lott, Lott's Nursery, Three Rivers, who served on the welcoming committee; Robert West, Azalea Gardens, Scotts, vice-president and program chairman,

and Fred McLinden, McLinden Nursery, Galesburg, secretary and publicity chairman.

JOHN A. McDONALD, 8254 Forestlawn, Detroit 34, Mich., is starting a nursery business.

HOBBY GARDENS, Sylacauga, Ala., growers of boxwood and other ornamental shrubs and trees, have added fruit trees to their retail line. The firm also specializes in complete landscaping services.

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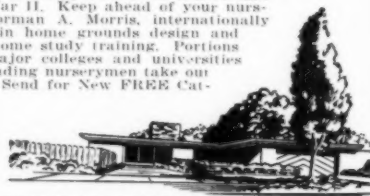
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Recent Advances in Plant Propagation

"Recent Advances in the Science of Plant Propagation" was the topic discussed by Richard Fillmore, the Siebenthaler Co., Dayton, O., for nurserymen's day, January 18, at the recent Ohio short course at Columbus. Mr. Fillmore explained that all methods of vegetative propagation are essentially a division of the plant. A form of division which has been developed only recently divides the plant longitudinally. To accomplish this division, a razor blade is fixed above a developing bud so that as the bud grows the plant is divided into two parts. Mr. Fillmore also stated that at least one species has been split by a similar method so that four plants are obtained.

One of the most recent and valuable advances in layering, as pointed out by Mr. Fillmore, involves the use of polyethylene film to aid in keeping moisture around the root-initiating tissues of the stems which are being layered. This method was first used commercially by Col. W. R. Grove in the propagation of *Litchi chinensis*.

It is impossible to overestimate the value of water to cuttings, Mr. Fillmore stated. With this in mind, several methods have been developed for controlling the humidity in greenhouses. Methods which were cited included the Hancock method, the Phytotector and the electronic leaf.

Theoretically, the electronic leaf is the most accurate and dependable of all mechanisms for controlling moisture. Actually, this device has not been perfected, added Mr. Fillmore. Although he has used the electronic leaf in open-frame mist propagation with good results, Mr. Fillmore thinks that the device can be developed so that it is more dependable.

Effects of Light

Since the discovery, by Dr. Kramer at Duke University, that *Abelia grandiflora* is sensitive to light, other flowering shrubs have been found to have a similar response. Mr. Fillmore cited some experiments carried out in Iowa. Weigela cuttings that had received no cold temperature period were started in a greenhouse having a temperature of 60 degrees Fahrenheit. Cuttings which received long days grew quite readily, whereas cuttings which did not receive the

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long days were dormant in a short time. Similar results have been obtained by the United States Department of Agriculture with other spring-flowering shrubs. Mr. Fillmore suggested that all spring-flowering shrubs which grow late in autumn probably are light sensitive.

A method of getting double use from propagation beds during the winter months was outlined. Taxus cuttings were started in October. Juniper cuttings, taken at the same time, were put in storage. The rooted taxus cuttings were removed from the bench in January and put in storage. The juniper cuttings were then removed from storage and started in the propagation beds, where they will remain until spring. In preparing the cuttings for storage, Mr. Fillmore placed moist peat around the base of the cuttings and then wrapped them in polyethylene film. The wrapped cuttings were placed in 35 degrees F. storage for two days, after which time the temperature was dropped to 30 degrees F. Mr. Fillmore also stated that in some sections of the south, cuttings are rooted in soil, and he suggested that the cuttings might be rooted directly in bands or pots.

A recent development in budding is the Nicolieren method of double working to overcome incompatibility. The method consists of placing a thin slice of intermediate bud tissue below the desirable bud. The buds from the intermediate stock are discarded, so that a thin section of tissue can be cut from below the bud. Mr. Fillmore stated that this method gives better results than when larger pieces of intermediate stock are used.

P. A. B.

ILLINOIS HILL PRAIRIES

"Hill Prairies of Illinois," a bulletin of the Illinois Natural History Survey, being article 5 of volume 26, is chiefly interesting for the description of species of vegetation found on these grassy slopes in the wild. The location of the sites where the plants are found and other phases add to the interest of this 84-page study by Robert A. Evers.

IVAN L. MEYERS, R. D. No. 1, Box 134, Creekside, Pa., is starting in the nursery business.

CHARLES H. GRIFFITH, R. D. 2, Sarver, Pa., is starting a nursery business.

MARY F. COGDALL, R. R. 3, South Haven, Mich., is starting in the nursery business.

STAN SAYS

Tsuga Canadensis

I used *Tsuga canadensis*, Canadian hemlock, as an evergreen hedge about an entrance motor court on an estate outside Johnstown, Pa., in the Allegheny mountains, where temperatures go to 20 to 25 degrees below zero. The plants were spaced at 30-inch intervals. Now the hedge is six feet high and five feet wide at the base. Of course, the sides slope. Never permit vertical sides on a hedge of any kind if you wish foliage to grow close to the ground.

The perfect soil for hemlocks is loose, with sufficient humus, and well fertilized; a heavy soil, unless well drained, is not satisfactory. Apparently the soil does not have to be too acid, as hemlocks thrive at Piqua, O., site of a large limestone quarry. Of course, hemlocks still can be found in the woods of Pennsylvania where the soil is acid.

I prefer to prune hemlocks when they are actually growing; others prefer to do it after new growth has been made in the spring. Hemlocks, with taxus and pitch pine, are among the few evergreens that make new buds from old wood.

One of the best nurseries in the east prunes its hemlock so tight that they are almost columnar, and in this instance they can be used in place of *Taxus capitata*, which to me is the least satisfactory of the yews. As almost every nurseryman knows, hemlocks will not go through a winter if placed on a windswept corner. If it is necessary to plant a hemlock in such a location, a vertical burlap screen must be erected on the side toward the prevailing wind; the screen should be set up November 20 and not taken down until March 20.

When hemlock, taxus or *Abies concolor* are moved late in the spring and wilt, it is best to take hedge shears and prune off the wilted growth as soon as it is discovered. Hemlocks in the past 15 years have come to the fore fast, and they are here to stay. They thrive in semi-shade (not dry semi-shade) and in the sun. They thrive in the residential East End of Pittsburgh, where they and yews are the only durable evergreens. In New York state deer feed on hemlock; in the Pocono mountains of Pennsylvania, deer feed on yews, but not on hemlocks.

Apparently the supply of Canadian hemlock will be limited for some time to come, since it is in such

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Park superintendents have found that the YORK RAKE is practically the only tool they need for clearing debris from picnic grounds, playgrounds, ball diamonds and bathing beaches, and for grading and raking areas that are to be seeded. A grader blade attachment (optional) works hard-packed ground, maintains driveways and cuts ditches.

Fits all tractors with 3-point hitch

The YORK RAKE is designed for use with all tractors with a standard 3-point hitch. Adjustments are simple and easy to make. Even an inexperienced operator can do satisfactory work the first time he uses the RAKE! Save on costly extra equipment—eliminate expensive hand labor... get the complete story on the YORK RAKE now!

For literature and prices,
write to Dept. AN-355



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UNADILLA, NEW YORK

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DRESS UP YOUR PLANTERS WITH UNION PLASTIC TRELLISES!



Union Pagoda Trellises are designed for beauty... planned to set off any assortment of plants. Choice of gaily decorated butterfly, hummingbird, love birds or flamingo. Also available without ornament.

Six eye-catching plastic colors.

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THE BUSH DOZEN PACK

Here is the most ideal growing unit on the market for growing annuals, Pansies, bedding plants, vegetables, etc. Ideal for customer sales of plants by the dozen. No more breaking into large flats for a dozen plants—thus saving you money from plant loss. Perfect in size—larger and more durable—made of double weight veneer measuring $9\frac{1}{4} \times 3\frac{3}{4} \times 2\frac{1}{2}$ ins. Proper drainage provided. Bottom stitched to one side. Easy and fast to assemble. Best of all—less expensive.

\$43.00 per 1000



BUSH PERENNIAL POTS

Also manufactured in double weight veneer with bottom stitched to one side. Sizes range from small, for various perennials, to medium and large, for Roses, Mums, Shrubs and Evergreens.



BUSH PLANT BANDS

$1\frac{3}{4} \times 1\frac{3}{4} \times 2$ ins.
 $1\frac{3}{4} \times 1\frac{3}{4} \times 2\frac{1}{2}$ ins.
2x2x2 ins.
2x2x2 $\frac{1}{2}$ ins.
2x2x3 ins.
 $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ ins.
 $2\frac{1}{2} \times 2\frac{1}{2} \times 3$ ins.
3x3x3 ins.
3x3x4 ins.
4x4x3 ins.
4x4x4 ins.



BUSH PLANT TRAYS

No. 1-R (Holds 12 $1\frac{3}{4} \times 2\frac{1}{2}$ bands)
No. 2-R (Holds 12 2x2 $\frac{1}{2}$ bands)
No. 3-R (Holds 12 2 $\frac{1}{2} \times 2\frac{1}{2}$ bands)
No. 1-S (Holds 25 $1\frac{3}{4} \times 2$ bands)
No. 2-S (Holds 25 2x2 bands)
No. 2-X (Holds 12 2x2 $\frac{1}{2}$ bands)
No. 3-X (Holds 12 2 $\frac{1}{2} \times 2\frac{1}{2}$ bands)
No. 4-X (Holds 12 3x3 bands)



	Per 1000
4x4x6 ins.	\$28.50
6x6x4 ins.	28.50
5x5x5 ins.	35.50
6x6x6 ins.	49.50
6x6x10 ins.	59.50
8x8x10 ins.	65.00

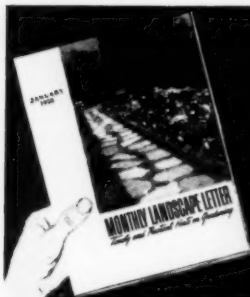
THE MOST PERFECT GROWING AND MERCHANDISING CONTAINERS ON THE MARKET TODAY

We specialize in Plant Bands and Plant Trays in all sizes, and feature our Treated Bands for longer growing durability. Write today for additional information. Samples on request. State size.

QUACKENBUSH INDUSTRIES, INC.

9245 Cherry St.

Franklin Park, Ill.



A SURE WAY TO MAKE PROSPECTS BUY...MAKE CUSTOMERS BUY MORE

The modern Landscape Letter is a money-making sales building plan you mail to customers and prospects once a month. It's interestingly and authoritatively written... clearly illustrated with pictures and charts. Timely hints arouse the desire for new plantings and improvements in garden and grounds. So the Landscape Letter gets you interviews that result in worthwhile sales. For 33 years, successful

nurserymen have hailed the Landscape Letter as the "lowest-cost way of building new business."

Your firm name is on the cover. Your ad message is on the back. So the authoritative Landscape Letter brings those aroused customers and prospects to you for expert advice. Only you are allowed to use the Landscape Letter in your area once the contract is signed. For it's yours on an exclusive franchise.

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Without obligation, send complete information on how the 4-page Landscape Letter will increase my sales.

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CRAB APPLES FOR AMERICA, by Donald Wyman.
\$2.00, postpaid.

Breeding propagation and culture,
American Nurseryman, Chicago 4, Ill.

heavy demand. Heavy snow in 1954 broke small branches of hemlock in the Painesville, O., district; fortunately, that does not happen often. I consider this one of the most valuable evergreens that is hardy north of the Mason and Dixon line. Fresh cow manure is recommended as an ideal stimulant for this evergreen.

For those who wish to pursue the study of hemlock further, there is a hemlock arboretum near Philadelphia that should be worthy of a visit.

Permanent Plantings

The fact that a customer desires a permanent planting should not be construed that the planting is to last forever. It is true that large-growing shade trees should be long-lived. Yews in the foundation planting will be long-lived, too. However, if retinosporas, arborvitae and various forms of juniper are used, a revamping job will be needed every 15 or 20 years.

Do not let a customer become too satisfied with his planting; keep suggesting new plants. Every businessman is out to get a larger percentage of the purchasing power of his customer. A pottery manufacturer in East Liverpool, O., for whom I was doing a job, once remarked that his business would be a lot better if there were handles on plates the same as on cups. Shrubs that are not long-lived are weigela, Syringa villosa, Deutzia gracilis, Viburnum opulus and some species of Ionicera.

PRUNING IN NURSERY ROW

As most nurserymen know, the earlier in June that cuts on shade trees are made the better. The healing layer shows up within a week if cutting is done in early June. If cuts are made at the end of June, the healing layer takes almost two weeks to show.

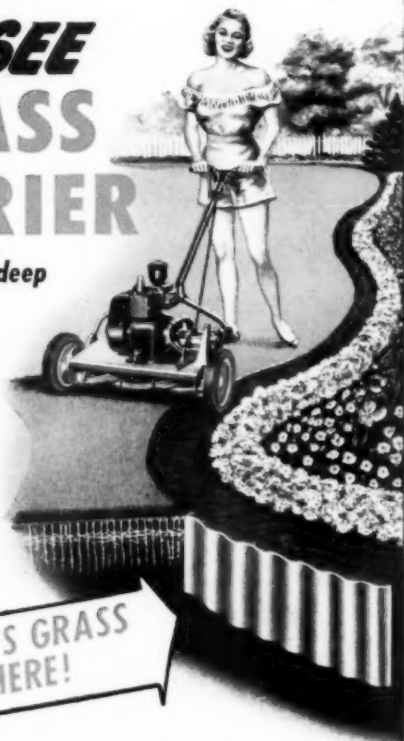
Few trees in a nursery are kept low-topped for lawn work; therefore it is necessary to remove two or three branches each year so that when the tree is ready for sale the healing of cuts is complete. The growth of side branches helps to create diameter; therefore, they must be removed gradually each year until the lowest branches are about six and one-half feet above the ground on a 2 $\frac{1}{2}$ -inch tree.

A sharp knife is the best tool to use in pruning trees; it makes a close, clean cut. If you have to use lopping shears to make a heavy cut, be sure to smooth the cut with a knife. When hand shears are used, be certain that the workman places the cutting edge of shears next to the bud or branch. Always keep shears well-oiled and sharp.

profit from the fast-growing market for the **NO-SEE** line!

NO-SEE GRASS BARRIER

4 inches deep



Sells spring, summer and fall!

Repeats and repeats . . . because the average customer buys 8 packages

Edges lawns permanently. Eliminates grass trimming. Cuts lawn work in half. Stops all kinds of grasses from spreading into cultivated areas. Used around trees, shrubs, flower beds; along fences, hedges and driveways. Gives lawns that well-cared-for look.

No-See Grass Barrier is made of corrugated, galvanized steel that lasts a lifetime. Easy-to-handle sections two feet long by four inches deep lock together to make any length. Bends easily around corners or at right angle.

Advertised retail—40-ft. package \$4.98

NO-SEE ROOT FENCE

12 inches deep



Eliminates a problem common to millions of home owners!

Bars shrub, hedge and vine roots from robbing flower beds of moisture and plant food. Impenetrable steel barrier 12 inches deep allows flowers to flourish close to shrub backgrounds. Makes the difference between straggly, puny flowers and well-nourished, prize-winning blooms!

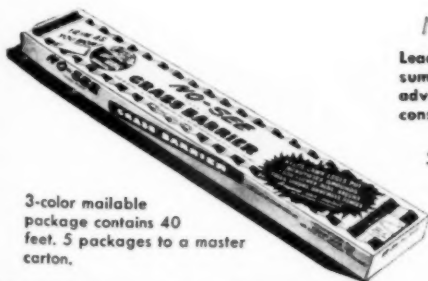
NO-SEE Root Fence is made of special hot-dipped, galvanized steel, corrugated to permit expansion and contraction as the soil freezes and thaws. Lasts a lifetime. Easy-to-handle sections two feet long by 12 inches deep lock together with special twist clips to make length needed.

Advertised retail box of 25 two-foot sections (\$50 ft.) \$19.95
(Individual section 89c)

NATIONALLY ADVERTISED

Leading national home and garden consumer publications will carry large 2-color advertisements all season, guaranteeing consumer demand for NO-SEE products.

Stocked by leading hardware and garden supply jobbers.
Liberal discounts.



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YOU CAN'T BUY MORE CAREFULLY GROWN LILACS. Lined into field rows from POT GRAFTS, plants were cut back after the first season's growth. Plants are well branched and, in most cases, on their own root.

BERRYER, double, clear mauve
12 to 18 ins., 18 to 24 ins., 30 to 36 ins.

CHARLES JOLY, double, bright crimson
24 to 30 ins.

CONGO, single, wine-red
10 to 12 ins., 12 to 18 ins.

DECAISNE, single, azure-blue
10 to 12 ins., 12 to 18 ins.

ELLEN WILLMOTT, double, white
12 to 18 ins., 18 to 24 ins., 24 to 30 ins.

GENERAL SHERIDAN, double, white
24 to 30 ins., 30 to 36 ins.

LUDWIG SPAETH, single, deep red
18 to 24 ins.

MACROSTACHYA, single, pink
12 to 18 ins.

MME. FLORENT STEPMAN, single, white
18 to 24 ins., 24 to 30 ins., 30 to 36 ins.

MARECHAL LANNES, double, violet-blue
18 to 24 ins.

PRESIDENT GREVY, double, blue
18 to 24 ins., 30 to 36 ins.

PRESIDENT LINCOLN, single, Wedgwood-blue
10 to 12 ins., 12 to 18 ins., 24 to 30 ins.

THOMAS JEFFERSON, single, clear violet
12 to 18 ins., 18 to 24 ins., 24 to 30 ins.

THUNBERG, double, mauve, white eye
12 to 18 ins., 18 to 24 ins., 24 to 30 ins.

PRICE OF ALL VARIETIES:

10 to 12 ins.	\$0.35	24 to 30 ins.	\$0.85
12 to 18 ins.	.55	30 to 36 ins.	1.00
18 to 24 ins.	.65		

(10 per variety or multiples of 10 only)

ASIATIC FLOWERING CRAB APPLES

18 to 24 ins. . . 65c 2 to 3 ft. . . 75c 3 to 4 ft. . . 90c 4 to 5 ft. . . \$1.10

(Sold 10 per variety or multiples of 10 only)

Malus adstringens
3 to 4 ft., 4 to 5 ft.

Malus floribunda purpurea
2 to 3 ft., 3 to 4 ft.

Malus hopa
3 to 4 ft.

Malus purpurea eleyi
3 to 4 ft., 4 to 5 ft.

Malus ringo
2 to 3 ft.

Malus sargentii, seedling type
12 to 18 ins., 18 to 24 ins.

Malus zumi Calocarpa
18 to 24 ins., 2 to 3 ft.

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